Road markings

Triflex marking products
Dear customer

Information about the Triflex marking products

The Triflex product information will help you to process and use the Triflex marking products. An overview of Triflex products according to application areas has been compiled on page 3. The list distinguishes between cold plastics, cold spray plastics, marking paints, additional products and tools.

You can find a colour chart on page 52 as well as a dew point temperature table on page 54.

If you need further technical documentation or have any questions about our products, please contact your local Triflex consultant. We are pleased to help you.

Your Triflex team
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Cold plastic

Preco Cryl Cold Plastic 2K

Product information

Applications

Preco Cryl Cold Plastic 2K is used for type I and type II markings as a closed-finish line, profiled or agglomerate marking.

Properties

The 2-component Preco Cryl Cold Plastic 2K, which has a polymethyl methacrylate resin (PMMA) base, offers the following features:

- Withstands mechanical loads
- Full-surface adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- BASt-tested (German Federal Highway Research Institute)
- IBDM-tested (Polish Road and Bridge Research Institute)

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.

Preco Cryl Cold Plastic 2K – for closed-finish, agglomerate or profiled markings. Drop-on materials mix – according to the relevant BASt test certificate.

Certifications and test data

Preco Cryl Cold Plastic 2K meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts). Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Pack size

Drum
18.00 kg Preco Cryl Cold Plastic 2K base resin*
28.00 kg Preco Cryl Cold Plastic 2K base resin*

Container
1,350.00 kg Preco Cryl Cold Plastic 2K base resin*
1,700.00 kg Preco Cryl Cold Plastic 2K base resin*

Catalyst
0.20 kg Preco Cryl Powder Catalyst
25.00 kg Preco Cryl Powder Catalyst (loose)
25.00 kg Triflex Liquid Catalyst

* Preco Cryl Cold Plastic 2K base resin is produced according to the season in normal (NO) or winter (WI) formulations. See product label.

Preco Cryl Cold Plastic is also available as a 3K variant.

Colours

1023 Traffic yellow
3013 Tomato red
3020 Traffic red
5017 Traffic blue
6024 Traffic green
7043 Traffic grey B
9005 Black
9010 White

Storage

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions

After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. The stirring time is 2 minutes. Process immediately afterwards. Depending on the ambient temperature, 1 to 2 % of catalyst is added. See also the label.

Mixing ratio

Preco Cryl Cold Plastic with a mixing ratio of 98:2 (2K) and 1:1 (3K) differ only in the application method. From a chemical point of view, both mixing ratios are the same and achieve the same traffic engineering features and results.

Methods of application

Smoothing trowel
Hand-held marking machine
Self-propelled marking machine
Cold plastic

Preco Cryl Cold Plastic 2K

Product information

**Material consumption**

Preco Cryl Cold Plastic 2K, density approx. 1.9 g/cm³

Closed-finish line marking:
Required volume approx. 4.50 kg/m² with a layer thickness of 2.5 mm.

Agglomerate marking:
Volume approx. 2.20 kg/m².

Profiled marking:
Volume approx. 6.50 kg/m² with a layer thickness of 3 to 5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

**Pot life**

Approx. 5 to 10 mins. at +20 °C

**Drying time**

Approx. 15 to 20 mins. at +20 °C

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

We guarantee the consistently high quality of our products. Non-system substances must not be added to Triflex systems.

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Cold plastic

Preco Cryl Cold Plastic 2K

Product description

Preco Cryl Cold Plastic 2K is a solvent-free, 2-component product with a polymethyl methacrylate (PMMA) resin base. It enables Type I and Type II markings to be applied in the form of closed-finish line marking as well as agglomerates and profiles. Preco Cryl Cold Plastic 2K is particularly suitable for roads with high traffic volumes and high requirements for night visibility. However, Triflex cold plastic products are also used in industrial buildings and multi-storey car parks with high requirements for wear-resistance. Preco Cryl products are suitable for bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

They can be applied by machine using an extruder and screed box technique as well as manually using a screed box, smoothing trowel or a knitting putty.

- Line markings with a smooth finish, agglomerate or profiled markings
- Temporary type II agglomerate markings in yellow
- Road signs
- Tactile markings for the blind
- Creation of design surfaces

One product – four methods of application

Smooth finish  Irregular agglomerate  Regular agglomerate  Profile
Triflex marking products

Preco Cryl Cold Plastic 2K

Product description
Preco Cryl Cold Plastic 2K is a solvent-free, 2-component product with a polymethyl methacrylate (PMMA) resin base. It enables Type I and Type II markings to be applied in the form of closed-finish line marking as well as agglomerates and profiles. Preco Cryl Cold Plastic 2K is particularly suitable for roads with high traffic volumes and high requirements for night visibility. However, Triflex cold plastic products are also used in industrial buildings and multi-storey car parks with high requirements for wear-resistance. Preco Cryl products are suitable for bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

They can be applied by machine using an extruder and screed box technique as well as manually using a screed box, smoothing trowel or a knifing putty.

- Line markings with a smooth finish, agglomerate or profiled markings
- Temporary type II agglomerate markings in yellow
- Road signs
- Tactile markings for the blind
- Creation of design surfaces

One product – four methods of application
Cold plastic

Preco Cryl Cold Plastic 2K NightLine

Product information

Applications
Preco Cryl Cold Plastic 2K NightLine is a thick-layer marking that is used in addition to existing emergency lighting systems for marking escape and rescue routes which are subject to high mechanical loads.

Properties
The 2-component Preco Cryl Cold Plastic 2K NightLine has a polymethyl methacrylate (PMMA) resin base and offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- Long-lasting luminescent effect
- Tested acc. to DIN 67510 Part 1

System build-up
Triflex Than Primer 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Cryl Cold Plastic 2K NightLine – for closed-finish or profiled markings.

Pack size
Drum
18.00 kg Preco Cryl Cold Plastic 2K NightLine Base Resin

Catalyst
0.20 kg Preco Cryl Powder Catalyst

The luminescent pigments are contained in the material.

Colours
Yellowish white

Storage
Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions
After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. Stir for 2 mins. Process immediately afterwards. Depending on the ambient temperature, 1 to 2 % of catalyst is added. Also see the label.

Methods of application
Depending on the substrate, Preco Cryl Cold Plastic 2K NightLine can be applied in one working step using a smoothing trowel or a hand-held marking machine.

Material consumption
Preco Cryl Cold Plastic 2K NightLine, density approx. 1.9 g/cm³

Closed-finish line marking:
Required volume approx. 4.75 kg/m² with a layer thickness of 2.5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Pot life
Approx. 5 to 10 mins. at +20 °C

Drying time
Approx. 15 to 20 mins. at +20 °C

Product information

Applications
Preco Cryl Cold Plastic 2K NightLine is a thick-layer marking that is used in addition to existing emergency lighting systems for marking escape and rescue routes which are subject to high mechanical loads.

Properties
The 2-component Preco Cryl Cold Plastic 2K NightLine has a polymethyl methacrylate (PMMA) resin base and offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- Long-lasting luminescent effect
- Tested acc. to DIN 67510 Part 1

System build-up
Triflex Than Primer 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Cryl Cold Plastic 2K NightLine – for closed-finish or profiled markings.

Pack size
Drum
18.00 kg Preco Cryl Cold Plastic 2K NightLine Base Resin

Catalyst
0.20 kg Preco Cryl Powder Catalyst

The luminescent pigments are contained in the material.

Colours
Yellowish white

Storage
Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions
After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. Stir for 2 mins. Process immediately afterwards. Depending on the ambient temperature, 1 to 2 % of catalyst is added. Also see the label.

Methods of application
Depending on the substrate, Preco Cryl Cold Plastic 2K NightLine can be applied in one working step using a smoothing trowel or a hand-held marking machine.

Material consumption
Preco Cryl Cold Plastic 2K NightLine, density approx. 1.9 g/cm³

Closed-finish line marking:
Required volume approx. 4.75 kg/m² with a layer thickness of 2.5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Pot life
Approx. 5 to 10 mins. at +20 °C

Drying time
Approx. 15 to 20 mins. at +20 °C
Cold plastic

Preco Cryl Cold Plastic 2K NightLine

Product information

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
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Product description

Preco Cryl Cold Plastic 2K NightLine is a 2-component, thick-layer marking with luminescent properties and is used on asphalt and concrete surfaces. The marking was tested according to DIN 67510 Part 1, Class A (see BAM [German Federal Institute for Materials Research and Testing] report: VIII.1E2046, sample panel no. 4).

With a 2.0 mm coating, the following decay time was measured by BAM:

Until a light density of 0.3 mcd/m² was reached = 540 minutes

At this rate, the marking is visible to the human eye for at least one hour.

Preco Cryl Cold Plastic 2K NightLine is used as additional safety to supplement existing emergency light systems to indicate escape and rescue routes which are subject to high mechanical loads in staircases, underground car parks, factories, shopping centres, tunnels and so on.

The superior quality pigments which are contained in Preco Cryl Cold Plastic 2K NightLine absorb daylight or artificial light and gradually release it in darkness. Amongst other factors, the efficacy of the luminescent marking is dependent on the quantity of impinging light. As a rule, the light intensity of the general lighting is sufficient. However, care must be taken to ensure that the light sources are installed as near as possible to the safety marking.
Cold plastic

Preco Cryl Profile Plastic 2K

Product information

Applications

Preco Cryl Profile Plastic 2K is used as a Type I or Type II profiled marking to generate acoustic and haptic signals when a vehicle drives over the line.

Properties

The 2-component Preco Cryl Profile Plastic 2K has a polymethyl methacrylate (PMMA) resin base and offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- BASt-tested (German Federal Highway Research Institute)

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Cryl Profile Plastic 2K – for closed-textured, agglomerate and profiled marking. Drop-on materials mix – according to the relevant BASt test certificate.

Certifications and test data

Preco Cryl Profile Plastic 2K meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts). Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Pack size

Drum
18.00 kg Preco Cryl Profile Plastic 2K Base Resin *
28.00 kg Preco Cryl Profile Plastic 2K Base Resin *
40.00 kg Preco Cryl Profile Plastic 2K Base Resin *

Catalyst
0.20 kg Preco Cryl Powder Catalyst
25.00 kg Preco Cryl Powder Catalyst (loose)

* Preco Cryl Profile Plastic 2K Base Resin is produced according to the season in normal (NO) or winter (WI) formulations. See product label.

Colours

9010 White

Storage

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions

After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. Stir for 2 mins. Process immediately afterwards. Depending on the ambient temperature, 1 to 2 % of catalyst is added. Also see the label.

Methods of application

Hand-held marking machine
Self-propelled marking machine with appropriate special attachment kit

Material consumption

Preco Cryl Profile Plastic 2K, density approx. 1.9 g/cm³

Profiled marking:
Required volume approx. 7.00 kg/m² with a layer thickness of 2.0 mm basic line and 5 mm profile.

Pot life

Approx. 5 to 10 mins. at +20 °C

Drying time

Approx. 15 to 20 mins. at +20 °C
Cold plastic

Preco Cryl Profile Plastic 2K

Product information

Notes on special hazards

See Safety Data Sheet, section 2

Safety tips

See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

General notes

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Product description

The use of Preco Cryl Profile Plastic 2K is particularly important in danger areas such as hard shoulder markings on motorways or solid lines in areas with narrow bends. The product is used as a Type II marking with a profiled surface. Depending on the spacing set between the profiles, a haptic and acoustic signal is generated when a vehicle drives over the line. Experts assume that fatigue is the cause of a quarter of all road accidents, making it the most common known cause of accidents. Road and motorway markings with Preco Cryl Profile Plastic 2K draw the attention of lorry and car drivers to any deviation from their lane. For the application of profiled markings, an appropriate special unit for conventional cold plastic marking machines is all that is required.

- Marking of danger areas
- Creation of Type I and Type II profiled markings
Cold plastic

Preco Cryl High-Friction Plastic 2K

Product information

**Applications**

Preco Cryl High-Friction Plastic 2K is used for Type I and Type II markings as a closed-textured line, profiled, agglomerate or flat marking on coarse surfaces.

**Properties**

The 2-component Preco Cryl High-Friction Plastic 2K, which has a polymethyl methacrylate (PMMA) resin base with coarse filling materials, offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- BASt-tested (German Federal Highway Research Institute)
- IBDiM-tested (Polish Road and Bridge Research Institute)

**System build-up**

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.

Preco Cryl High-Friction Plastic 2K – for closed-textured, agglomerate and profiled markings as well as coating surfaces and cycle paths.

Drop-on materials mix – according to the relevant BASt test certificate.

**Certifications and test data**

Preco Cryl Cold Plastic 2K meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts).

Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

**Pack size**

Drum

- 18.00 kg Preco Cryl High-Friction Plastic 2K Base Resin *
- 28.00 kg Preco Cryl High-Friction Plastic 2K Base Resin *
- 40.00 kg Preco Cryl High-Friction Plastic 2K Base Resin *

Container

- 1,350.00 kg Preco Cryl High-Friction Plastic 2K Base Resin *

Catalyst

- 0.20 kg Preco Cryl Powder Catalyst
- 25.00 kg Preco Cryl Powder Catalyst (loose)
- 25.00 kg Triflex Liquid Catalyst

* Preco Cryl High-Friction Plastic 2K Base Resin is produced according to the season in normal (NO) or winter (WI) formulations. See product label.

Preco Cryl High-Friction Plastic is also available as a 3K variant.

**Colours**

1023 Traffic yellow
3009 Oxide red
3013 Tomato red
3020 Traffic red
5017 Traffic blue
6024 Traffic green
7043 Traffic grey B
9005 Black
9010 White

**Storage**

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Mixing instructions**

After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. Stir for 2 mins. Process immediately afterwards.

Depending on the ambient temperature, 1 to 2 % of catalyst is added. Also see the label.

**Mixing ratio**

Preco Cryl High-Friction Plastic with a mixing ratio of 98:2 (2K) and 1:1 (3K) differ only in terms of the application method.

Both mixing ratios are chemically identical and achieve the same traffic performance and results.

**Methods of application**

- Smoothing trowel
- Hand-held marking machine
- Self-propelled marking machine
Cold plastic

Preco Cryl High-Friction Plastic 2K

Product information

### Material consumption

Preco Cryl High-Friction Plastic 2K, density approx. 1.9 g/cm³

Closed-finish line marking:
Required volume approx. 4.50 kg/m² with a layer thickness of 2.5 mm.

Agglomerate marking:
Required volume approx. 2.20 kg/m².

Profiled marking:
Required volume approx. 6.50 kg/m² with a layer thickness of 3 to 5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

### Pot life

Approx. 5 to 10 mins. at +20 °C

### Drying time

Approx. 15 to 20 mins. at +20 °C

### Notes on special hazards

See Safety Data Sheet, section 2

### Safety tips

See Safety Data Sheet, sections 7 and 8

### Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

### General notes

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The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
Cold plastic

Preco Cryl High-Friction Plastic 2K

Product description

Preco Cryl High-Friction Plastic 2K is a solvent-free, 2-component product with a polymethyl methacrylate (PMMA) resin base with coarse filling materials. Due to its special formulation, the product is particularly suitable for the manual application of thick-layer road and surface markings on coarse surfaces. Likewise, Preco Cryl High-Friction Plastic 2K enables Type I and Type II markings to be applied using conventional types of machinery. Preco Cryl products are suitable for bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

One product – four methods of application

- Line markings with a smooth finish, agglomerate or profiled markings
- Temporary Type II agglomerate markings in yellow
- Textured, non-slip markings for surfaces and cycle paths
- Road signs
- Tactile markings for the blind
- Creation of design surfaces

Smooth finish  Irregular agglomerate  Regular agglomerate  Profile
Triflex marking products

Product description

Preco Cryl High-Friction Plastic 2K is a solvent-free, 2-component product with a polymethyl methacrylate (PMMA) resin base with coarse filling materials. Due to its special formulation, the product is particularly suitable for the manual application of thick-layer road and surface markings on coarse surfaces. Likewise, Preco Cryl High-Friction Plastic 2K enables Type I and Type II markings to be applied using conventional types of machinery. Preco Cryl products are suitable for bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

- Line markings with a smooth finish, agglomerate or profiled markings
- Temporary Type II agglomerate markings in yellow
- Textured, non-slip markings for surfaces and cycle paths
- Road signs
- Tactile markings for the blind
- Creation of design surfaces

One product – four methods of application
**Product information**

### Applications

Preco Cryl Roller-Applied Plastic 2K is used as a textured and non-slip coating for surfaces and cycle paths, including those which run alongside the main flow of traffic.

### Properties

The 2-component Preco Cryl Roller-Applied Plastic 2K has a polymethyl methacrylate (PMMA) resin base and offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied

### System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.

Preco Cryl Roller-Applied Plastic 2K – continuous surface coating in layer thicknesses of approx. 1.0 to 1.2 mm.

### Pack size

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum</td>
<td>Preco Cryl Roller-Applied Plastic 2K Base Resin *</td>
</tr>
<tr>
<td>Catalyst</td>
<td>Preco Cryl Powder Catalyst</td>
</tr>
<tr>
<td></td>
<td>Preco Cryl Powder Catalyst (loose)</td>
</tr>
</tbody>
</table>

* Preco Cryl Roller-Applied Plastic 2K Base Resin is produced according to the season in normal (NO) or winter (WI) formulations. See product label.

### Colours

- 3009 Oxide red
- 3013 Tomato red
- 3020 Traffic red
- 5017 Traffic blue
- 6024 Traffic green
- 7043 Traffic grey B
- 9005 Black
- 9010 White

### Storage

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

### Mixing instructions

After thoroughly mixing the base resin, the corresponding catalyst quantity is added to and mixed with a slow-running mixing machine until there are no more lumps. Stir for 2 mins. Process immediately afterwards. Depending on the ambient temperature, 1 to 2 % of catalyst is added. Also see the label.

### Methods of application

Manual application using a cellular rubber spreader and wool roller or radiator roller.

### Material consumption

Preco Cryl Roller-Applied Plastic 2K, density approx. 1.7 g/cm³

Required volume approx. 2.00 kg/m² with a layer thickness of approx. 1.2 mm.

Calculation formula:

Surface width (m) x surface length (m) x volume (kg/m²) = volume required for the surface (kg)

### Pot life

Approx. 5 to 10 mins. at +20 °C

### Drying time

Approx. 15 to 20 mins. at +20 °C
Preco Cryl Roller-Applied Plastic 2K

**Product information**

**Notes on special hazards**
See Safety Data Sheet, section 2

**Safety tips**
See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**
See Safety Data Sheet, sections 4, 5 and 6

**General notes**
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**Product description**

Preco Cryl Roller-Applied Plastic 2K is used as a textured and non-slip coating for surfaces and cycle paths, including those which run alongside the main flow of traffic. The completely elastic and non-slip surface cures in less than twenty minutes. It can be applied quickly and easily with a rubber blade or a wool roller. Due to the coarse filling materials contained in the material, it is not necessary to dress the surfaces with anti-skid aggregate.

Preco Cryl Roller-Applied Plastic 2K is suitable for coating cycle paths on bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

- Markings for use alongside the flow of traffic
- Textured, non-slip surfaces
- Cycle path markings
Cold spray plastic

Preco Cryl Spray-Applied Resin 98:2

Product information

Applications

Preco Cryl Spray-Applied Resin 98:2 is used to create closed-textured, thin-layer Type I and Type II line markings.

Properties

Preco Cryl Spray-Applied Resin 98:2, which has a polymethyl methacrylate (PMMA) resin base, offers the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- Fast-curing
- Elastic
- Cold-applied
- High yield thanks to low density
- BASt-tested (German Federal Highway Research Institute)
- IBDM-tested (Polish Road and Bridge Research Institute)

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Drop-on materials mix – according to the relevant BASI test certificate

Certifications and test data

Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Pack size

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<tr>
<td>Drum</td>
<td>Preco Cryl Spray-Applied Resin 98:2 Base Resin</td>
</tr>
<tr>
<td>Container</td>
<td>Preco Cryl Spray-Applied Resin 98:2 Base Resin</td>
</tr>
<tr>
<td>Catalyst</td>
<td>Triflex Liquid Catalyst</td>
</tr>
<tr>
<td>Or reactive beads:</td>
<td></td>
</tr>
<tr>
<td>Peroxide-coated reflective beads</td>
<td></td>
</tr>
<tr>
<td>20.00 kg Echostar 5 BCP TECNO SRT</td>
<td></td>
</tr>
<tr>
<td>20.00 kg Echostar 30 BCP TECNO SRT</td>
<td></td>
</tr>
</tbody>
</table>

Preco Cryl Spray-Applied Resin is also available as a 3K variant.

Colours

1023 Traffic yellow
6024 Traffic green
9010 White

Storage

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions

Before use, Preco Cryl Spray-Applied Resin 98:2 Base Resin is mixed with a slow-running mixing machine. Depending on the ambient temperature, 1 to 2 % of catalyst is added using a static mixer or a similar machine. Also see the label.

Mixing ratio

Preco Cryl Spray-Applied Resin with a mixing ratio of 98:2 (2K) and 1:1 (3K) differ only in terms of the application method.
Both mixing ratios are chemically identical and achieve the same traffic performance and results.

Methods of application

98:2 method:

With this method, Preco Cryl Spray-Applied Resin 98:2 is applied by means of a 2-component marking machine using an airless or airspray technique in a mixing ratio of 98:2. Triflex Liquid Catalyst acts as the peroxide activator here. A static mixer, for example, can be used to mix both substances.
Preco Cryl Spray-Applied Resin 98:2

Product information

Open system:
With this method, Preco Cryl Spray-Applied Resin 98:2 is applied by means of a 1-component marking machine using an airless or airspray technique. The reactive beads Echostar 30 BCP TECNO SRT or Echostar 30 BCP TECNO SRT, which are injected into the spray jet via bead pistols and subsequently dropped on, act as the peroxide activator. The ratio of Preco Cryl Spray-Applied Resin 98:2 to Technobeads is 1:1 or 1:1.2 for layer thicknesses >400 µm. The Technobeads must form an even covering over the wet line film. This is achieved when there are no more shiny areas visible.

Material consumption
Preco Cryl Spray-Applied Resin 98:2, density approx. 1.4 g/cm³
Closed-finish line marking:
Required volume approx. 0.84 kg/m² with a layer thickness of 0.60 mm.
Required volume approx. 1.05 kg/m² with a layer thickness of 0.75 mm.
Undercoat/refreshing:
Required volume approx. 0.42 kg/m² with a layer thickness of 0.30 mm.
Required volume approx. 0.56 kg/m² with a layer thickness of 0.40 mm.
Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Product description

Preco Cryl Spray-Applied Resin 98:2 is used for Type I and Type II closed-textured line markings. The cold spray plastic is perfect for marking roads with low traffic volumes, such as rural roads and streets in quiet residential areas. Because it dries very quickly, the product is also suitable for undercoats on roads with high traffic volumes or for refreshing agglomerates. The road can be reopened to traffic within 10 minutes of the application. In some cases, the flow of traffic need not even be disturbed at all.

Drying time
Approx. 4 to 10 mins. at +20 °C

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
We guarantee the consistently high quality of our products. Non-Triflex products must not be used with Triflex systems.
The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.

Preco Cryl Spray-Applied Resin 98:2 can be applied using all conventional application methods with airless and atomiser techniques.
Prefabricated marking

Triflex Tactile Marking

Product information

Applications

Triflex Tactile Markings are primarily used on train platforms and pedestrian crossings, and act as a warning signal for the blind.

Properties

The prefabricated Triflex Tactile Marking is based on fully cured PMMA resin tiles and can be bonded to asphalt and concrete substrates using Preco Cryl Cold Plastic 2K.

The product offers the following features:

- Quick to apply
- Bonds to almost all substrates
- Durable
- Good visibility
- Flexible
- Weather-resistant
- For indoor and outdoor use
- Strong tactile quality
- Excellent acoustic feedback
- Resistant to frost and de-icing salt
- Conforms to DIN 32984
- Non-slip material surface tested according to DIN 51130 or ASR 1.5/1,2 and DIN 51097

Pack size

| Triflex Tactile Marking: | 300 mm x 300 mm | Tiles with raised dots |
| 600 mm x 300 mm | Tiles with raised dots |
| 300 mm x 300 mm | Tiles with ribs |
| 600 mm x 300 mm | Tiles with ribs |

Colours

9010 White
Other colours on request.

Storage

Can be stored for approx. 12 months in a dry place above freezing at temperatures of +5 °C to +35 °C. Keep the packaging away from direct sunlight, even on the construction site.

Conditions for use

Ambient temperature: +5 °C to +25 °C
Substrate temperature: +5 °C to +25 °C

Processing instructions

Preparation:
The substrate must be dry, clean and free of dust, oil, grease and other contaminants. Adhesion tests should be carried out if in any doubt. The fine mortar layer/concrete slurry must be removed from concrete or cement-bound substrates.

Sufficiently protect adjacent areas using adhesive tape.

**Triflex Than Primer L 1K**
Triflex Than Primer L 1K is used as a primer on absorbent and solvent-resistant substrates such as concrete.

**Preco Cryl Cold Plastic 2K**
Spread the cold plastic on the designated surface with a notched trowel. Large uneven areas must first be levelled out using the cold plastic.

**Triflex Tactile Marking**
Prior to bonding, the back of the tiles with ribs or raised dots must be cleaned using Triflex Cleaner MW. Leave to air-dry for approx. 2–3 min and then lay and press the tiles into the fresh adhesive bed.

General notes

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Prefabricated marking

Triflex Tactile Marking

Product description

With Triflex Tactile Markings, tactile markings for the blind in the form of ribs or raised dots (so-called warning markings) can be applied quickly and easily. The very quick drying times mean that additional building costs and public transport delays are reduced to a minimum. Train platforms, areas at public transport stops and crossings at traffic lights must only be closed for a very short period. The standard dimensions are suitable for both indoor and outdoor use, and can be easily cut to length if necessary. The Triflex Tactile Marking complies with DIN 32984 for tactile paving for public areas and has a strong and long-lasting tactile quality as well as excellent acoustic feedback. The non-slip properties of the Triflex Tactile Marking are tested according to DIN 51130 / ASR A1.5/1,2 and DIN 51097.
Marking paint

Preco Line 300

Product information

Applications

Preco Line 300 is used as a thin-layer, spray-applied Type I road marking on streets and parking decks and in halls, as well as on asphalt and concrete surfaces.

Properties

The 1-component, physically drying high-solid paint Preco Line 300 has an acrylate resin base and offer the following features:

- Withstands mechanical loads
- Fully bonded adhesion
- Weather-resistant (UV, IR, etc.)
- Alkali-resistant
- BASF-tested (German Federal Highway Research Institute)

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Line 300 – continuous line marking in layer thicknesses of 0.3 to 0.6 mm.
Drop-on materials mix – according to the relevant BASF test certificate.
Preco Line Thinner – for regulating viscosity.

Certifications and test data

Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Pack size

Drum
38.00 kg  Preco Line 300

Colours

1023 Traffic yellow
3009 Oxide red
3013 Tomato red
3020 Traffic red
5017 Traffic blue
6024 Traffic green
7043 Traffic grey B
9005 Black
9010 White

Storage

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Conditions for use

Ambient temperature: +5 °C to +35 °C.
Substrate temperature: +5 °C to +45 °C.
Rel. humidity: max. 75 %.

Methods of application

Spray application using the airless or compressed air spray method

Material consumption

Preco Line 300, density approx. 1.45 g/cm³.

Required volume approx. 0.44 kg/m² with a layer thickness of 0.3 mm.
Required volume approx. 0.58 kg/m² with a layer thickness of 0.4 mm.

Calculation formula:

\[
\text{Line width (m)} \times \text{line length (m)} \times \text{volume (kg/m²)} = \text{volume required for area (kg)}
\]

Determination of the dry layer thickness:

<table>
<thead>
<tr>
<th>Thickness of wet film</th>
<th>300 µm</th>
<th>400 µm</th>
<th>600 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry layer thickness</td>
<td>180 µm</td>
<td>240 µm</td>
<td>360 µm</td>
</tr>
</tbody>
</table>

Drying time

Approx. 20 to 30 mins. at +20 °C
Marking paint  

Preco Line 300  

Product information  

<table>
<thead>
<tr>
<th>Notes on special hazards</th>
<th>General notes</th>
</tr>
</thead>
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<tr>
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<tr>
<th>Safety tips</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>See Safety Data Sheet, sections 7 and 8</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measures in case of fire or accidents</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>See Safety Data Sheet, sections 4, 5 and 6</td>
<td></td>
</tr>
</tbody>
</table>

Product description  

In addition to road marking, the marking paint Preco Line 300 is also suitable for marking hall floors or parking spaces. In halls, Preco Line 300 is used on walkways, where it only has to withstand low mechanical loads. The economical Preco Line 300 is very well suited to this particular application. The thin-layer marking is used on asphalt and concrete surfaces. Special colours are available upon request.

- Alkali-resistant
- Fully bonded adhesion
- Weather-resistant
- Physically drying
- Low-solvent
Marking paint

Preco Line 300 NightLine

Product information

Applications

Preco Line 300 NightLine is used as a thin-layer, luminescent safety marking for indoor escape and rescue routes.

Properties

The 1-component, physically drying high-solid paint Preco Line 300 NightLine with an acrylate resin base offers the following features:

- Visible for at least one hour in darkness
- Increased safety for building users
- Yellowish white
- Can be applied using the airless spray method
- Withstands mechanical loads
- Fast-drying
- Tested acc. to DIN 67510 Part 1

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Line 300 NightLine – marking in layer thicknesses of approx. 0.6 mm (wet film).

Pack size

Drum
5.00 kg Triflex Preco Line 300 NightLine

The luminescent pigments are contained in the material.

Colours

Yellowish white

Storage

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Conditions for use

Ambient temperature: +5 °C to +35 °C.
Substrate temperature: +5 °C to +45 °C.
Rel. humidity: max. 75 %.

Methods of application

Depending on the substrate, Preco Line 300 NightLine can be applied in just one working step using the airless or compressed air spray method.

It can also be applied with a roller. However, particular care must be taken in this case to maintain the correct layer thickness. Where necessary, several coats of the material must be applied. The texture of the roller may cause an uneven distribution of the luminescent effect.

Material consumption

Preco Line 300 NightLine, density approx. 1.55 g/cm³

Required volume approx. 0.93 kg/m² with a layer thickness of 0.6 mm (wet film).

Calculation formula:

Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Drying time

Approx. 20 to 30 mins. at +20 °C
Preco Line 300 NightLine

Product information

**Notes on special hazards**
See Safety Data Sheet, section 2

**Safety tips**
See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**
See Safety Data Sheet, sections 4, 5 and 6

**Product description**

Preco Line 300 NightLine is a 1-component, thin-layer marking with luminescent properties and is used on asphalt and concrete surfaces. The marking was tested according to DIN 67510 Part 1, Class A (see BAM [German Federal Institute for Materials Research and Testing] report: VIII.1E2046, sample panel no. 1). With a 0.6 mm coating, the following decay time was measured by BAM:

Until a light density of 0.3 mcd/m² was reached = 600 minutes

At this rate, the marking is visible to the human eye for at least one hour.

Preco Line 300 NightLine is used indoors as an additional safety supplement to existing emergency light systems to indicate escape and rescue routes which are subject to low mechanical loads in staircases, underground car parks, factories, shopping centres, tunnels and so on.

The superior quality pigments which are contained in Preco Line 300 NightLine absorb daylight or artificial light and gradually release it in darkness. Amongst other factors, the efficacy of the luminescent marking is dependent on the quantity of impinging light. As a rule, the light intensity of the general lighting is sufficient. However, care must be taken to ensure that the light sources are installed as near as possible to the safety marking.

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Marking paint

Preco Line EP 2K

Product information

Applications
Preco Line EP 2K is a mechanically durable marking paint suitable for indoor use. It can also be used to mark out parking and set-down areas in multi-storey car parks and industrial halls.

Properties
The low-solvent, 2-component high-solid paint Preco Line EP 2K has an epoxy (EP) resin base and offers the following features:

- Withstands mechanical loads
- Tough and durable
- Fully bonded adhesion
- Oil- and petrol-resistant
- Alkali-resistant
- Fast-drying
- Free of aromatic hydrocarbons

System build-up
Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Preco Line EP 2K – continuous line marking in layer thicknesses of 0.3 to 0.6 mm.
Triflex Than Finish 511 – for increasing the mechanical strength and chemical resistance.

Certifications and test data
Preco Line EP 2K meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts).
Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Mixing instructions
Mix the base component and add the hardener using a slow-running mixing machine. Stirring time at least 2 min.
Transfer to another receptacle and mix again.

Mixing ratio
The mixing ratio corresponds to the pack size.
20: 1 part by weight: Base: Resin: Hardener

Methods of application
Spray application using the airless or compressed air spray method

Material consumption
Preco Line EP 2K, density approx. 1.50 g/cm³.

Required volume approx. 0.75 kg/m² with a layer thickness of 0.5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Determination of the dry layer thickness:
Approx. 12 hrs. at +20 °C
Can be sprayed over after: approx. 12 hrs. at +20 °C
Can be driven over after: approx. 24 hrs. at +20 °C

Drum/metal canister
20.00 kg Preco Line EP 2K Base Component
1.00 kg Preco Line EP 2K Hardener Component
21.00 kg

1023 Traffic yellow
9010 White

Drum/metal canister
20.00 kg Preco Line EP 2K Base Component
1.00 kg Preco Line EP 2K Hardener Component
21.00 kg

1023 Traffic yellow
9010 White

Colours

Storage
Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Pack size
Drum/metal canister
20.00 kg Preco Line EP 2K Base Component
1.00 kg Preco Line EP 2K Hardener Component
21.00 kg

Certifications and test data
Preco Line EP 2K meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts).
Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

Drying time
Can be sprayed over after: approx. 12 hrs. at +20 °C
Can be driven over after: approx. 24 hrs. at +20 °C

Materials consumption
Preco Line EP 2K, density approx. 1.50 g/cm³.

Required volume approx. 0.75 kg/m² with a layer thickness of 0.5 mm.

Calculation formula:
Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Determination of the dry layer thickness:
Approx. 12 hrs. at +20 °C
Can be sprayed over after: approx. 12 hrs. at +20 °C
Can be driven over after: approx. 24 hrs. at +20 °C

Drum/metal canister
20.00 kg Preco Line EP 2K Base Component
1.00 kg Preco Line EP 2K Hardener Component
21.00 kg

1023 Traffic yellow
9010 White

Colours

Storage
Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.
Preco Line EP 2K

Product information

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

Product description

The hall marking paint Preco Line EP 2K with an epoxy resin base guarantees a long service life especially in areas of halls which are subject to medium mechanical loads due to forklift truck traffic, for example. The high-solid paint is especially suitable for indoor use. It is fast-curing, so the resulting short closure times hardly affect three-shift production at all. Due to the high colour intensity and wide range of colours, traffic routes, parking and set-down areas and danger zones can be clearly marked for the long-term.

Preco Line EP 2K is suitable for bituminous surfaces as well as concrete substrates (with Triflex Than Primer L 1K).

- Fully bonded adhesion
- Oil- and petrol-resistant
- Free of aromatic hydrocarbons
- Tough and durable
- Alkali-resistant

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Marking paint

Preco Line EP 2K NightLine

Product information

Applications

Preco Line EP 2K NightLine is a mechanically durable safety marker suitable for indoor use. It can also be used to mark out escape and rescue routes in underground car parks and tunnels.

Properties

The low-solvent, 2-component high-solid paint Preco Line EP 2K NightLine has an epoxy (EP) resin base and offers the following features:

- Visible for at least one hour in darkness
- Increased safety for building users
- Yellowish white
- Can be applied using the airless spray method
- Can be stored
- Durable
- Tested acc. to DIN 67510 Part 1

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.

Preco Line EP 2K NightLine – continuous line marking in layer thicknesses of up to 0.6 mm.

Pack size

Drum/metal canister
5.00 kg Preco Line EP 2K NightLine Base Component
0.50 kg Preco Line EP 2K NightLine Hardener Component
5.50 kg

The luminescent pigments are contained in the base component.

Colours

Yellowish white

Storage

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions

Mix the base component and add the hardener using a slow-running mixing machine. Stirring time at least 2 min.
Transfer to another receptacle and mix again.

Mixing ratio

The mixing ratio corresponds to the pack size.
10: 1 part by weight/base: Resin: Hardener

Methods of application

Depending on the substrate, Preco Line EP 2K NightLine can be applied in just one work step using the airless or compressed air spray method.

It can also be applied with a roller. However, particular care must be taken in this case to maintain the correct layer thickness. Where necessary, several coats of the material must be applied. The texture of the roller may cause an uneven distribution of the luminescent effect.

Material consumption

Preco Line EP 2K NightLine, density approx. 1.14 g/cm³.

Required volume approx. 0.46 kg/m² with a layer thickness of approx. 0.4 mm.

The layer thickness should be at least 0.25 mm. The amount applied has a positive effect on the light density. If necessary, a layer thickness of up to 0.6 mm can be applied in two spray coats.

Calculation formula:

Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Pot life

Approx. 12 hrs. at +20 °C

Drying time

Can be recoated after: approx. 2 hrs. at +20 °C
Resistant after: approx. 4 hrs. at +20 °C
Can be driven over after: approx. 24 hrs. at +20 °C
Preco Line EP 2K NightLine is a 2-component, thin-layer marking with luminescent properties and is used on asphalt and concrete surfaces. The marking was tested according to DIN 67510 Part 1, Class A (see BAM [German Federal Institute for Materials Research and Testing] report: 8.6E0024, sample no. 01 (b)). With a 0.6 mm coating, the following decay time was measured by BAM:

Until a light density of 0.3 mcd/m² was reached = 614 minutes

At this rate, the marking is visible to the human eye for at least one hour.

Preco Line EP 2K NightLine is used as an additional safety supplement to existing emergency light systems to indicate escape and rescue routes which are subject to medium mechanical loads in staircases, underground car parks, factories, shopping centres, tunnels and so on.

The superior quality pigments which are contained in Preco Line EP 2K NightLine absorb daylight or artificial light and gradually release it in darkness. Amongst other factors, the efficacy of the luminescent marking is dependent on the quantity of impinging light. As a rule, the light intensity of the general lighting is sufficient. However, care must be taken to ensure that the light sources are installed as near as possible to the safety marking.
Triflex EPS is a thin-layer, closed-textured, Type I and Type II line marking that can be used outdoors, even on damp substrates.

**Properties**

The low-solvent, 2-component, high-solid paint Triflex EPS has an epoxy (EP) resin base and offers the following features:

- Withstands mechanical loads
- Tough and durable
- Full-surface adhesion
- Oil- and petrol-resistant
- Alkali-resistant
- Abrasion-resistant
- Free of aromatic hydrocarbons
- BASf-tested (German Federal Highway Research Institute)

**System build-up**

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.

Triflex EPS – continuous line marking in layer thicknesses of 0.3 to 0.6 mm.

Drop-on materials – according to the relevant BASf test certificate.

**Certifications and test data**

Triflex EPS meets the requirements of the ZTV M 13 (Additional Technical Specifications in Construction Contracts).

Our current test certificates can be found in the download area of our website www.triflex.com under the heading “Markings” or at www.triflex.com/certificates.

**Mixing instructions**

Mix the base component and add the hardener using a slow-running mixing machine. Stirring time at least 2 min.

Transfer to another receptacle and mix again.

**Mixing ratio**

The mixing ratio corresponds to the pack size.

20: 1 part by weight: Base: Resin: Hardener

**Methods of application**

Spray application using the airless or compressed air spray method.

**Material consumption**

Triflex EPS, density approx. 1.60 g/cm³.

Required volume approx. 0.96 kg/m² with a layer thickness of 0.6 mm.

Calculation formula:

Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

**Drying time**

According to BASf test certificate approx. 10 to 15 mins. at +20 °C

Can be walked on after: approx. 2 hrs. at +20 °C

Resistant after: approx. 4 hrs. at +20 °C

**Storage**

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.
**Product description**

**Triflex EPS** is a high-solid paint for spray-applied Type I and Type II road markings on damp substrates. The highly resistant system components can even be used in wet conditions. The low-solvent road marking paint may only be used outdoors in combination with our tried-and-tested drop-on materials on main roads, country roads and ring roads. The thin-layer, spray-applied road marking Triflex EPS is oil- and petrol-resistant and is used in inclement weather as well as in cases where other marking material can no longer be applied.

**Triflex EPS** is well-suited for day or night use with tested drop-on materials.

- **Mechanical strength**
- **Full-surface adhesion**
- **Abrasion-resistant**
- **Free of aromatic hydrocarbons**
Triflex ParkLine

Product information

Applications

Triflex ParkLine is used as a thin-layer marking for outdoor parking and set-down areas.

Properties

The low-solvent, 2-component, high solid paint Triflex ParkLine has an epoxy resin (EP) base and offers the following features:

- Outstanding durability
- Resistant to shearing forces
- Short drying time
- Oil- and petrol-resistant
- UV-resistant
- Abrasion resistant

System build-up

Triflex Than Primer L 1K – for sealing the concrete substrate and ensuring substrate adhesion.
Triflex ParkLine – continuous line marking in layer thicknesses of 0.3 to 0.6 mm.

Pack size

Drum/metal canister
20.00 kg Triflex ParkLine base component
1.00 kg Triflex ParkLine hardener component
21.00 kg

Colours

1023 Traffic yellow
9010 White

Storage

Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions

Mix the base component and add the hardener using a slow-running mixing machine. Stirring time at least 2 min.
Transfer to another receptacle and mix again.

Mixing ratio

The mixing ratio corresponds to the pack size.
20: 1 part by weight/base: Resin: Hardener

Methods of application

Spray application using the airless or compressed air spray method.

Material consumption

Triflex ParkLine, density approx. 1.55 g/cm³.

Required volume approx. 0.93 kg/m² with a layer thickness of 0.6 mm.

Calculation formula:

Line width (m) x line length (m) x volume (kg/m²) = volume required for area (kg)

Determination of the dry layer thickness:

Approx. 12 hrs. at +20 °C
Can be walked on after: approx. 2 hrs. at +20 °C
Resistant after: approx. 4 hrs. at +20 °C

Pot life

Approx. 12 hrs. at +20 °C

Drying time

Can be walked on after: approx. 2 hrs. at +20 °C
Resistant after: approx. 4 hrs. at +20 °C

Mixing instructions

Mix the base component and add the hardener using a slow-running mixing machine. Stirring time at least 2 min.
Transfer to another receptacle and mix again.
Product information

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
We guarantee the consistently high quality of our products.
Non-Triflex products must not be used with Triflex systems.

The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.

Product description

Triflex ParkLine is used for marking outdoor parking and set-down areas. The low-solvent, 2-component high-solid paint, which has an epoxy resin base, can be used on asphalt and concrete surfaces. The sprayable Triflex ParkLine offers excellent adhesion, even on substrates with residual moisture. Thanks to the short drying times, the closure times are also very brief.

- Outstanding durability
- Resistant to shearing forces
- High opacity
Hardener

Preco Cryl Powder Catalyst

Product information

Applications

Preco Cryl Powder Catalyst is an essential hardener component when using fast-curing PMMA products.

Properties

Preco Cryl Powder Catalyst is an oxygen-rich chemical product which functions as an initiator for the hardening (polymerisation) of pre-activated, fast-curing PMMA resin products.

Pack size

<table>
<thead>
<tr>
<th>Pack size</th>
<th>Preco Cryl Powder Catalyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE bag</td>
<td>0.20 kg</td>
</tr>
<tr>
<td>Box</td>
<td>25.00 kg</td>
</tr>
</tbody>
</table>

Storage

Store Preco Cryl Powder Catalyst in a closed container in a dry place away from ignition and heat sources at temperatures of below +30 °C. Protect from direct sunlight. This product may ignite spontaneously if exposed to excessive heat. If the catalyst is stored at higher temperatures, clumps will form in the free-flowing powder and it will be unusable.

Mixing ratio

The mixing ratio generally corresponds to the product pack size. However, check the product information of the materials to be used. If too much or too little catalyst is used, this may impede the curing reaction, and the stated mechanical and chemical properties of the product will not be attained.

Processing instructions

The Preco Cryl Powder Catalyst is evenly mixed in. See the relevant product information.

Notes on special hazards

See Safety Data Sheet, section 2

Safety tips

See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

General notes

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Triflex Liquid Catalyst

Product information

Applications

Triflex Liquid Catalyst is an essential hardener component when using fast-curing PMMA products.

Properties

Liquid hardener component for fast-curing PMMA products. Triflex Liquid Catalyst is neither a binder nor a resin, but rather an oxygen-rich chemical product which functions as an initiator for the curing (polymerisation) of pre-activated, fast-curing PMMA resin products.

Pack size

PE bag
0.11 litres Triflex Liquid Catalyst

Plastic canister
25.00 kg Triflex Liquid Catalyst (≈ 18.75 litres)

Storage

Store Triflex Liquid Catalyst in a dry place and in a closed container away from ignition and heat sources and above freezing at a temperature of +5 to +25 °C. Protect from direct sunlight. This product may ignite spontaneously if exposed to excessive heat.

Mixing instructions

Details on mixing ratios can be found in the product information of the product to be used. If too much or too little catalyst is used, this may impede the curing reaction, and the stated mechanical and chemical properties of the product will not be attained.

Processing instructions

Before using Triflex Liquid Catalyst, the container supplied must be shaken to create a homogeneous mixture. The required quantity of Triflex Catalyst is then evenly mixed into the material to be applied.

Notes on special hazards

See Safety Data Sheet, section 2

Safety tips

See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

General notes

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Thinner
Preco Cryl KP Resin 125

Product information

Applications
Preco Cryl KP Resin 125 is a fast-curing thinner for pre-accelerated, fast-curing Preco Cryl cold plastic products.

Properties
Addition of Triflex Cryl KP Resin 125 can reduce the viscosity and increase the flow of highly viscous, fast curing cold plastics.

Pack size
Drum
10.00 kg Preco Cryl KP Resin 125

Colours
Transparent murky

Storage
Can be stored unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Mixing instructions
After thoroughly mixing the Preco Cryl cold plastic products, Preco Cryl KP Resin 125 is homogeneously mixed into the base resin using a slow-running mixing machine. The maximum amount of Preco Cryl KP Resin 125 to be added is 3 % by weight.

Please refer to the table of mixing ratios for the corresponding volumetric amounts to be added.

<table>
<thead>
<tr>
<th>Container size for base resin</th>
<th>Quantity of Cryl KP Resin 125 (for a mixing ratio of 3 % by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 kg</td>
<td>0.54 kg</td>
</tr>
<tr>
<td>28 kg</td>
<td>0.84 kg</td>
</tr>
<tr>
<td>40 kg</td>
<td>1.20 kg</td>
</tr>
<tr>
<td>1,350 kg</td>
<td>40.50 kg</td>
</tr>
<tr>
<td>1,700 kg</td>
<td>51.00 kg</td>
</tr>
</tbody>
</table>

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
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**Thinner**

**Preco Line Thinner**

**Product information**

**Applications**

Preco Line Thinner is used where necessary to regulate the viscosity of physically drying, 1-component marking paints, such as Preco Line 300, and to clean machinery, equipment and tools.

**Properties**

Highly volatile, solvent-based thinner.

**Pack size**

<table>
<thead>
<tr>
<th>Canister</th>
<th>Preco Line Thinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 l</td>
<td></td>
</tr>
<tr>
<td>27.00 l</td>
<td></td>
</tr>
</tbody>
</table>

**Colours**

Transparent

**Storage**

Can be stored unmixed for approx. 24 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Mixing ratio**

If necessary, up to 2 % by weight of Preco Line Thinner can be added to 1-component high-solid paints to adjust the viscosity. Mix the Preco Line Thinner into the base resin using a slow-running stirrer.

**Processing instructions**

Preco Line Thinner is not suitable for thinning 2-component, fast-curing marking products such as Preco Line EP 2K, Triflex ParkLine, Triflex EPS, Preco Cryl Cold Plastic 2K, Preco Cryl Spray-Applied Resin 98:2 and so on.

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

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Triflex Pox Thinner

Product information

**Applications**

Where necessary, Triflex Pox Thinner is used to regulate viscosity for the following products:

- Preco Line EP 2K
- Triflex ParkLine
- Triflex EPS

The thinner is also used to clean machinery, equipment and tools in which 2-component Triflex marker paints with an epoxy resin base were used.

**Properties**

Solvent-based thinner.

**Pack size**

<table>
<thead>
<tr>
<th>Canister</th>
<th>Triflex Pox Thinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 l</td>
<td></td>
</tr>
<tr>
<td>27.00 l</td>
<td></td>
</tr>
</tbody>
</table>

**Colours**

Transparent

**Storage**

Can be stored unmixed for approx. 24 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Mixing ratio**

In principle, the Preco Line EP 2K, Triflex ParkLine and Triflex EPS are ready for use upon delivery. If necessary, up to max. 2 % by weight of Triflex Pox Thinner can be used to adjust the viscosity. Mix the Triflex Pox Thinner into the base resin using a slow-running stirrer.

**Processing instructions**

Triflex Pox Thinner is **not** suitable for thinning Preco Line 300. Use Preco Line Thinner for this instead.

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

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Triflex Cryl Retarding Agent

Product information

**Applications**

Where necessary, Triflex Cryl Retarding Agent is used to extend the pot life and curing times of Preco Cryl marking materials with a fast-curing polymethyl methacrylate (PMMA) resin base.

**Properties**

Triflex Cryl Retarding Agent inhibits the PMMA resins’ polymerisation reaction, which extends the pot life and curing times.

**Pack size**

Canister
4.50 l  Triflex Cryl Retarding Agent

**Colours**

Transparent yellowish

**Storage**

Can be stored unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Mixing instructions**

The amount to be added is max. 0.05 % by weight in relation to the container’s nominal contents.

Please refer to the table of mixing ratios for the corresponding volumetric amounts to be added:

<table>
<thead>
<tr>
<th>Container size for PMMA base resin</th>
<th>Quantity of Triflex Cryl Retarding Agent (for a mixing ratio of 0.05 % by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 kg</td>
<td>9 ml</td>
</tr>
<tr>
<td>28 kg</td>
<td>14 ml</td>
</tr>
<tr>
<td>40 kg</td>
<td>20 ml</td>
</tr>
<tr>
<td>1,350 kg</td>
<td>675 ml</td>
</tr>
<tr>
<td>1,700 kg</td>
<td>850 ml</td>
</tr>
</tbody>
</table>

Triflex Cryl Retarding Agent is homogeneously distributed in the base resin by means of a slow-running mixing machine.

**Processing instructions**

When the material and substrate temperature is below +25 °C, use of Triflex Cryl Retarding Agent with Preco Cryl marking products can lead to a partial or incomplete chemical reaction.

**Important note:**
Improper handling of Triflex Cryl Retarding Agent increases the yellowing of Preco Cryl products and has a negative influence on the marking systems’ mechanical properties.

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

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**Additional product**

**Triflex Cryl Additional Accelerator**

**Product information**

**Applications**

Triflex Cryl Additional Accelerator is used to increase reactivity at low application temperatures (5–10 °C) for Preco Cryl marking materials with a fast-curing polymethyl methacrylate (PMMA) resin base.

**Properties**

Triflex Cryl Additional Accelerator accelerates the polymerisation reaction, which shortens the pot life and curing times.

**Pack size**

Canister

4.50 l  Triflex Cryl Additional Accelerator

**Colours**

Transparent yellowish

**Storage**

Can be stored unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Mixing instructions**

The amount to be added is between 0.1 and max. 0.2 % by weight in relation to the container’s nominal contents.

Please refer to the table of mixing ratios for the corresponding volumetric amounts to be added.

<table>
<thead>
<tr>
<th>Container size for PMMA base resin</th>
<th>Quantity of Triflex Cryl Additional Accelerator (mixing ratio of 0.1 % by weight)</th>
<th>Quantity of Triflex Cryl Additional Accelerator (mixing ratio of 0.2 % by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 kg</td>
<td>18 ml</td>
<td>36 ml</td>
</tr>
<tr>
<td>28 kg</td>
<td>28 ml</td>
<td>56 ml</td>
</tr>
<tr>
<td>40 kg</td>
<td>40 ml</td>
<td>80 ml</td>
</tr>
<tr>
<td>1,350 kg</td>
<td>1,350 ml</td>
<td>2,700 ml</td>
</tr>
<tr>
<td>1,700 kg</td>
<td>1,700 ml</td>
<td>3,400 ml</td>
</tr>
</tbody>
</table>

Triflex Cryl Additional Accelerator is homogeneously distributed in the base resin by means of a slow-running mixing machine.

**Important note:**

The Triflex Cryl Additional Accelerator must be added and mixed homogeneously with the base resin before the catalyst is added, otherwise there is a risk of deflagration (spontaneous decomposition reaction).

Triflex Cryl Additional Accelerator and the catalyst must be stored separately from one another at all times.

**Processing instructions**

When the material and substrate temperature is greater than +10 °C, use of Triflex Cryl Additional Accelerator with Preco Cryl marking products can cause a strongly accelerated chemical reaction to occur, which can lead to a partial or incomplete chemical reaction.

**Important note:**

Improper handling of Triflex Cryl Additional Accelerator increases the yellowing of Preco Cryl products and has a negative influence on the marking systems’ mechanical properties.

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

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Additional product

**Triflex Cleaner MW**

### Product information

#### Applications

Triflex Cleaner MW is used to clean tools and equipment used in the application of all Preco (PMMA), EP and PUR products.

#### Properties

Solvent-based universal cleaning agent

#### Pack size

<table>
<thead>
<tr>
<th>Canister</th>
<th>Triflex Cleaner MW</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 l</td>
<td></td>
</tr>
<tr>
<td>27.00 l</td>
<td></td>
</tr>
</tbody>
</table>

#### Colours

Transparent

#### Storage

Can be stored unopened for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

#### Processing instructions

Clean tools and machinery with Triflex Cleaner MW immediately after use. Merely placing tools in the cleaner will not prevent hardening.

#### Airing time:

In the case of overcoating, the cleaner must be aired for approx. 20 to 25 mins.

#### Notes on special hazards

See Safety Data Sheet, section 2

#### Safety tips

See Safety Data Sheet, sections 7 and 8

#### Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

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# Road markings

## Triflex marking products

## Triflex marking products – Markings 06/2018

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**Thickening agent**

### Triflex Liquid Thixo

#### Product information

<table>
<thead>
<tr>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triflex Liquid Thixo is used as a thickening agent in Triflex PMMA products to allow the coating of vertical surfaces. It is not suitable for EP or PUR products.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triflex Liquid Thixo is a thickening agent in liquid form.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal canister</td>
</tr>
<tr>
<td>1.00 litre Triflex Liquid Thixo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can be stored unopened for max. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mixing ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount to be added up to 1 % by weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processing instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triflex Liquid Thixo is evenly mixed into the PMMA base resin. After a maturing time of approx. 2 to 5 mins., thixotropy sets in. Triflex catalyst is then mixed in according to the product information for the PMMA product.</td>
</tr>
</tbody>
</table>

### Notes on special hazards

See Safety Data Sheet, section 2

### Safety tips

See Safety Data Sheet, sections 7 and 8

### Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

### General notes

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Road markings
Triflex marking products

Triflex Liquid Thixo is used as a thickening agent in Triflex PMMA products to allow the coating of vertical surfaces. It is not suitable for EP or PUR products.

Triflex Liquid Thixo is a thickening agent in liquid form.

Metal canister
1.00 litre Triflex Liquid Thixo

Transparent

Can be stored unopened for max. 12 months in a cool, dry place above freezing.

Keep the container out of direct sunlight, even on the construction site.

Amount to be added up to 1% by weight

Triflex Liquid Thixo is evenly mixed into the PMMA base resin. After a maturing time of approx. 2 to 5 mins., thixotropy sets in. Triflex catalyst is then mixed in according to the product information for the PMMA product.

Applications
Properties
Pack size
Colours
Storage
Mixing ratio
Processing instructions

Notes on special hazards
Safety tips
Measures in case of fire or accidents
General notes

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See Safety Data Sheet, section 2
See Safety Data Sheet, sections 7 and 8
See Safety Data Sheet, sections 4, 5 and 6
Finish
Triflex Than Finish 511

Product information

Applications
Triflex Than Finish 511 is used as an unpigmented finish in Triflex PUR systems and Preco Line EP 2K.

Properties
2-component, unpigmented finish with a high-quality polyurethane resin (PU) base. Triflex Than Finish 511 offers the following features:

- Tough and durable
- Gloss finish
- Resistant to chemicals
- UV-resistant
- Scratch-resistant
- Easy to clean

Pack size
Combination drums
6.25 kg Triflex Than Finish 511 Base Resin
1.75 kg Triflex Than Finish 511 Hardener
8.00 kg

Colours
Transparent

Storage
Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Conditions for use
Triflex Than Finish 511 can be applied at substrate and ambient temperatures of between +8 °C and +35 °C. In enclosed spaces, always ensure forced ventilation with a minimum 7-fold air exchange per hour.

Preparation of the substrate
The substrate must be sound, dry and free of loose or adhesion-reducing particles.
During application, the surface temperature must be at least 3 °C above dew point. Below that, a separating film of moisture can form on the surface to be worked on (DIN 4108-5, table 1). See dew point temperature table.

Mixing instructions
Thoroughly mix the base resin, add the corresponding hardener and mix with a slow-running mixing machine. Stirring time at least 2 mins. Transfer to another receptacle and mix again.

Mixing ratio
The mixing ratio corresponds to the pack size.
100: 28 parts by weight/base resin: Resin: Hardener

Methods of application
Manual application with finish roller.

Material consumption
Approx. 0.20 kg/m² on a smooth, even surface

Pot life
Approx. 45 mins. at +20 °C

Drying time
Dust-dry after:
approx. 3 hrs. at +20 °C
Can be walked on/recoated after:
approx. 12 hrs. at +20 °C
Resistant to chemicals after:
approx. 7 days at +20 °C

Product information
Triflex Than Finish 511 is used as an unpigmented finish in Triflex PUR systems and Preco Line EP 2K.

2-component, unpigmented finish with a high-quality polyurethane resin (PU) base. Triflex Than Finish 511 offers the following features:

- Tough and durable
- Gloss finish
- Resistant to chemicals
- UV-resistant
- Scratch-resistant
- Easy to clean

Pack size
Combination drums
6.25 kg Triflex Than Finish 511 Base Resin
1.75 kg Triflex Than Finish 511 Hardener
8.00 kg

Colours
Transparent

Storage
Can be stored unopened and unmixed for approx. 6 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

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During application, the surface temperature must be at least 3 °C above dew point. Below that, a separating film of moisture can form on the surface to be worked on (DIN 4108-5, table 1). See dew point temperature table.

Mixing instructions
Thoroughly mix the base resin, add the corresponding hardener and mix with a slow-running mixing machine. Stirring time at least 2 mins. Transfer to another receptacle and mix again.

Mixing ratio
The mixing ratio corresponds to the pack size.
100: 28 parts by weight/base resin: Resin: Hardener

Methods of application
Manual application with finish roller.

Material consumption
Approx. 0.20 kg/m² on a smooth, even surface

Pot life
Approx. 45 mins. at +20 °C

Drying time
Dust-dry after:
approx. 3 hrs. at +20 °C
Can be walked on/recoated after:
approx. 12 hrs. at +20 °C
Resistant to chemicals after:
approx. 7 days at +20 °C
Finish
Triflex Than Finish 511

Product information

<table>
<thead>
<tr>
<th>Resistance to chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 50 % ++</td>
</tr>
<tr>
<td>Formic acid 5 % ++</td>
</tr>
<tr>
<td>Ammonia 5 % ++</td>
</tr>
<tr>
<td>Benzine ++</td>
</tr>
<tr>
<td>Benzene ±</td>
</tr>
<tr>
<td>Benzo triazole ++</td>
</tr>
<tr>
<td>Boric acid 5 % ++</td>
</tr>
<tr>
<td>Butanol ++</td>
</tr>
<tr>
<td>Butyl acetate − −</td>
</tr>
<tr>
<td>Butyldiglycol ++</td>
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<tr>
<td>Chronic acid 5 % ++</td>
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<tr>
<td>Diesel oil ++</td>
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<tr>
<td>Acetic acid 5 % ++</td>
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<tr>
<td>Formaldehyde 3 % ++</td>
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<tr>
<td>Glycerine ++</td>
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<td>HD oil ++</td>
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++ = resistant
± = conditionally resistant (approx. 24 hrs.)
− − = non-resistant

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
We guarantee the consistently high quality of our products.
Non-Triflex products must not be used with Triflex systems.

The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
**Primer**

**Triflex Than Primer L 1K**

**Product information**

**Applications**

Triflex Than Primer L 1K is used as a primer on absorbent and solvent-resistant substrates such as concrete prior to marking with Preco Line or Preco Cryl products.

**Properties**

The 1-component solvent-based Triflex Than Primer L 1K, which has a polyurethane resin (PUR) base, offers the following features:

- Highly fluid
- High penetration capability
- Strengthens the surface
- Sprayable
- Alkali-resistant
- Very good chemical resistance against de-icing salt as well as mineral and heating oils

**Pack size**

Canister
9.00 litres  Triflex Than Primer L 1K

**Colours**

Transparent brownish

**Storage**

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

**Methods of application**

Spray application using the airless or compressed air spray method.
Manual application using a brush or radiator roller.

**Material consumption**

Density approx. 0.94 g/cm³.
Approx. 0.20 kg/m² on a smooth, even surface.

**Drying time**

Can be recoated after: approx. 20 to 30 mins. at +20 °C

**Notes on special hazards**

See Safety Data Sheet, section 2

**Safety tips**

See Safety Data Sheet, sections 7 and 8

**Measures in case of fire or accidents**

See Safety Data Sheet, sections 4, 5 and 6

**General notes**

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The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
Triflex Release Agent

Product information

Applications
Triflex Release Agent can be applied to tools and machine parts as well as wooden and metal templates. It is used to bring about a quicker and more effective removal of adherent marking materials. The material can be easily removed using mechanical means even after hardening.

Properties
Solvent-based release agent with wax base for PMMA and EP resins. Triflex Release Agent is characterised by the following quality features:

- Fast-drying
- Good release effect
- Easy to remove
- Very economical
- Prolongs service life of tools / machines

Pack size
Canister
5.00 litres Triflex Release Agent

Colours
Transparent

Storage
Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Conditions for use
The material must be brought to room temperature and shaken before application.

Methods of application
Triflex Release Agent is liquid and can be applied with a brush or with the aid of a simple spray bottle. If necessary, the release agent can be thickened using Triflex Powder Thixo.

Material consumption
Density approx. 0.77 g/cm³.
Approx. 20 g/m² on a smooth, even surface.

Drying time
Can be used after: approx. 2 mins. at +20 °C

Notes on special hazards
See Safety Data Sheet, section 2

Safety tips
See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents
See Safety Data Sheet, sections 4, 5 and 6

General notes
We guarantee the consistently high quality of our products. Non-Triflex products must not be used with Triflex systems. The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
Auxiliary marking
Triflex Pre-Marking Paint

Product information

Applications

Triflex Pre-Marking Paint is used as an auxiliary marking during final marking.

Properties

The 1-component, physically drying Triflex Pre-Marking Paint with an acrylate resin base offers the following features:

- High opacity
- Fast-drying
- High visibility

Pack size

Drum
10.00 kg  Triflex Pre-Marking Paint

Colours

Silver

Storage

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Methods of application

Spray application,
Manual application using a chalk line or brush

Material consumption

Approx. 0.20 g/m² on a smooth, even surface.

Drying time

Can be driven over after: approx. 10 to 15 mins. at +20 °C

Notes on special hazards

See Safety Data Sheet, section 2

Safety tips

See Safety Data Sheet, sections 7 and 8

Measures in case of fire or accidents

See Safety Data Sheet, sections 4, 5 and 6

General notes

We guarantee the consistently high quality of our products. Non-Triflex products must not be used with Triflex systems.

The advice we give in relation to the application of our products is based on extensive development and many years of experience, and is correct to the best of our knowledge. Given the multitude of on-site requirements, under the most varied of conditions, the user is required to test the product’s suitability for its respective purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
Triflex marking products

Triflex Pre-Marking Paint is used as an auxiliary marking during final marking.

The 1-component, physically drying Triflex Pre-Marking Paint with an acrylate resin base offers the following features:

- High opacity
- Fast-drying
- High visibility

Drum

10.00 kg Triflex Pre-Marking Paint

Silver

Can be stored unopened and unmixed for approx. 12 months in a cool, dry place above freezing. Keep the container out of direct sunlight, even on the construction site.

Methods of application

- Spray application,
- Manual application using a chalk line or brush

Material consumption

Approx. 0.20 g/m² on a smooth, even surface.

Properties

Pack size

Colours

Storage

Safety tips

Measures in case of fire or accidents

General notes

We guarantee the consistently high quality of our products.

Non-Triflex products must not be used with Triflex systems.

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Notes on special hazards

Drying time

Applications
Marking aid

Triflex Marking Template

Product information

Applications

Triflex Marking Templates are used as marking aids for road markings, markings on parking spaces, in multi-storey and underground car parks, as well as on company and private premises. They make it easier to apply Triflex marking products.

Properties

The reusable Triflex Marking Templates offer the following features:

- 3 mm thick, high-quality aluminium
- With smooth, laser-cut edges
- Suitable for Triflex thick-layer and thin-layer markings
- Resistant to corrosion
- True-to-scale motifs as per the “Guidelines for marking roads” (RMS)
- Quick and easy handling with practical handles (optional)
- Individual motifs can be designed upon request

Pack size

Prefabricated single- or multi-part aluminium panels packed in corrugated cardboard. Larger and multi-part templates are supplied on disposable pallets.

See below for individual motifs.

Storage

Triflex Marking Templates must be stored in a dry place and protected from damage.

Processing instructions

To facilitate cleaning, the Triflex Marking Template must be pre-treated with Triflex Release Agent before use. Following application, the coarse material deposits must be removed with a paste and then with Triflex Cleaner MW.

General notes

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Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.
Product information

**Direction arrows**

Direction arrow templates are available in sets with a length of 5.00 m (internal template dimension). Different combinations of arrows can be created with the basic set and the ancillary sets:

- **Direction arrows, basic set:**
  - Straight/left combination
  - Straight
  - Straight/right combination

- **Turn arrows, ancillary set A:**
  - Left
  - Right
  - Left/right combination

- **Advance notice arrows, ancillary set V:**
  - Left
  - Right

**Letters**

Letter templates are available in the length 4.00 m (internal template dimensions).
- **Letters A to Z, incl. the letters with umlauts “Ä, Ö, Ü”**
  Close-spaced lettering acc. to DIN 1451 Part 2, elongated to three times the length

**Numbers**

Number templates are available in the length 4.00 m (internal template dimensions).
- **Numbers 0 to 9**
  Close-spaced lettering acc. to DIN 1451 Part 2, elongated to three times the length

**Pictograms**

The templates for pictograms are available in the following dimensions (internal template dimensions).
- **Pedestrian:** 0.30 x 0.55 m
- **Bicycle:** 1.00 x 1.30 m
- **Wheelchair user:** 0.70 x 1.00 m

**Individual motifs**

Special dimensions and customised lettering or logos are also available upon request. Please ask your technical advisor to find out whether your proposed idea is technically feasible.
- **Sample customer logo:** max 1.50 m x 1.10 m per single item (external template dimensions).
  Larger motifs can be produced as multi-part sets.
Colours

Please note:
Minor variations between the colours shown here and the actual
colours are due to printing technology and the materials used.
Road markings

Triflex marking products
## Dew point temperature

Dew point temperature as a function of air temperature and relative air humidity for condensation calculation.

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**For example:** An air temperature of +20°C with 60% relative humidity impacting on surfaces of +12°C or cooler will produce condensation.

**Please note:** During application, the surface temperature must be at least 3°C above the dew point temperature. Below that, an adhesive film of moisture may form on the surface.
Road markings

Triflex marking products

Triflex International

![Map of Europe showing Triflex locations](image)

- **International**
  - Triflex GmbH & Co. KG
    - Karlstrasse 59
    - 32423 Minden
    - Fon +49 571 38780-708
    - international@triflex.com
    - www.triflex.com

- **Germany**
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    - Karlstrasse 59
    - 32423 Minden
    - Fon +49 571 38780-0
    - info@triflex.de
    - www.triflex.de

- **Switzerland**
  - Triflex GmbH
    - Hauptstrasse 36
    - 6260 Reiden
    - Fon +41 62 842 98 22
    - swiss@triflex.swiss
    - www.triflex.swiss

- **Austria**
  - Triflex GesmbH
    - Gessenschwandt 39
    - 4882 Oberwang
    - Fon +43 6233 20089
    - info@triflex.at
    - www.triflex.at

- **France**
  - Triflex France
    - 22, Rue Maurice Labrousse
    - 92160 Antony
    - Fon +33 1 56 45 10 34
    - info@triflex.fr
    - www.triflex.fr

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    - Via Senigallia 18/2 Torre A
    - 20161 Milano
    - Fon +39 02 64672663
    - italia@triflex.com
    - www.triflex.com/it

- **United Kingdom**
  - Triflex (UK) Limited
    - Whitebridge Way
    - Stone Staffordshire ST15 8JS
    - Fon +44 1785 819119
    - info@triflex.co.uk
    - www.triflex.co.uk

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  - Triflex BV
    - Boerendanserdijk 35
    - 8024 AE Zwolle
    - Fon +31 38 4602050
    - info@triflex.nl
    - www.triflex.nl

- **Belgium**
  - Triflex BVBA / SPRL
    - Diamantstraat 6c
    - 2200 Herentals
    - Fon: +32 14 73 25 50
    - info@triflex.be
    - www.triflex.be

- **Poland**
  - Follmann Chemia Polska Sp. z o.o.
    - ul. Wyspianskiego 43
    - 60 751 Poznań
    - Fon +48 616 683 445
    - info@triflex.pl
    - www.triflex.pl

Triflex marking products – Markings 06/2018