

Binder

Triflex Stone Design R 1K



Product information

Applications

Triflex Stone Design R 1K is used as a binder to create the surface in the Triflex Stone Design system.

Properties

1-component resin with an air-humidity-hardening aliphatic polyurethane base. The binder is:

- Solvent-free
- Weather-resistant
- Flexible
- Wear-resistant
- UV-stable and colour-stable
- Gloss finish
- Low-emission
- Odourless
- Good resistance to diluted acids and lyes, salt water and waste water, and lubricants and fuels

Pack size

Metal bucket

1.75 kg Triflex Stone Design R 1K

Colours

Transparent

Storage

Can be stored unopened for approx. 6 months in a cool, dry place above freezing. Store at temperatures between +10 °C and +25 °C. Polyurethane components must always be stored in sealed, closed containers due to their sensitivity to moisture. Opened containers should be processed immediately. Keep container away from direct sunlight when in storage and on the construction site.

Conditions for use

The temperatures of the Triflex Stone Design R 1K binder should be at least +15 °C, but no more than +25 °C.
Only use unopened original containers. Only Triflex Stone Design S (marble gravel or granite grit) may be used as special aggregate.
A high air humidity (> 80 %) may impact the surface structure.

Application temperature

+15 to +25 °C material temperature
+10 to +30 °C object temperature
Optimal processing temperature at > +10 °C air temperature.



Preparation of the substrate

The pre-treated and coated substrate must be sound, dry and free of loose or adhesion-reducing particles. Possible unevenness of the surface must be smoothed out. Ensure that the surface has a minimum gradient of 2 % and avoid standing water. Ensure that structural measures are taken to prevent moisture penetration of the entire surface from underneath. Substrate adhesion must be tested on a case-by-case basis.

During application, the surface temperature must be at least 3 °C above dew point. Below this temperature, a separating film of moisture can form on the surface to be worked on.

See dew point temperature table.

Mixing instructions

Thoroughly stir the Triflex Stone Design R 1K binder with a wooden stirrer. Then mix the binder into the Triflex Stone Design S special aggregate with a slow-running double mixing machine until all stones are evenly wetted with the binder.

Stirring time at least 3 mins. Use within 45 minutes.

The use of a double mixing machine e.g. Collomix Xo 55 R or a positive mixer is recommended.

To prevent foaming, fully empty the mixing bucket directly after mixing. Avoid any material accumulations.

Mixing ratio

Mix together 1.75 kg Triflex Stone Design R 1K (binder) and 25 kg Triflex Stone Design S (special aggregate).
7 : 100 proportion by weight / binder : special aggregate



Product information

Material consumption

1.12 kg/m² Triflex Stone Design R 1K
16.00 kg/m² Triflex Stone Design S

Ready-to-use mix:
Approx. 17.1 kg/m² at 8 mm layer thickness

Important:

No final finish needed.

Pot life

Approx. 1 hr. at +20 °C

Drying time

Rainproof after	approx. 2 hrs. at +20 °C
Can be walked on after	approx. 18 hrs. at +20 °C
Mechanically resistant after	approx. 3 days at +20 °C
Chemically resistant after	approx. 7 days at +20 °C

Possible surface stickiness may last for up to 3 days depending on the ambient temperature and air humidity.

Times will decrease in higher ambient and substrate temperatures and lower relative humidity, and will increase in lower ambient and substrate temperatures and higher relative humidity.

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 wide variety of on-site requirements and conditions, the user is required to test the product's suitability for the particular purpose. Technical information is subject to change without notice in the interests of technical advancement or enhancement of our products.