

TECHNICAL DATA SHEET

Eagle Stone Resin is Two-component, aliphatic, transparent binder, polyurethane-based designed to be used with aggregates in different applications such as driveways, playgrounds and walkways.

Eagle Stone Resin is odourless, transparent, 100% solids polyurethane to be used as a binder or aggregate encapsulation for trafficable areas exposed to the UV rays.

Density	1,00 ±0,05 g/cm ³
Viscosity	1700~2500 cps
Pot life	±30 minutes
Dry time	3 ~4 hours
Application method	by trowel

GENERAL FEATURES

- 100% solids, no water, no solvent (odourless).
- Don't add water or solvent
- High abrasion resistance, flexibility.
- Aliphatic, fully resistant to UV rays and weather.
- Eagle Stone Resin should be applied in dry conditions avoiding the presence of humidity or water coming from the surface to be coated or the substrate, whether at the time of application or subsequently (pressure from phreatic water level).
- To reduce the risk of condensation, both the substrate and the ambient temperature should be a least 3 °C above the dew point at the time of application.
- Binder for the aggregate encapsulation. Mixing ratio(in weight) 1:13,5
- The recommended size of the aggregates is around 3-5 mm

PACKAGING

Metal tins on this format:

- COMPONENT A: 4,50 kg + COMPONENT B: 2,50 kg

SHELF LIVE

24 months at temperatures between 5° C and 35° C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

APPLICATION METHOD

Substrate

- Concrete must be sound, clean, dry and free from laitance, and suitable for application of the resin-bound surfacing
- Ensure that the concrete has a minimum design strength of C35 and that the concrete has a minimum compressive strength of 25 MPa.

Mixing

- Eagle Stone Resin comes pre-measured in the appropriate amounts for mixing. Partial mixes of the pre-measured components are not recommended.
- Stir the Component A and then pour in the contents of Component B.
- Mix using a paddle mixer at low speed until the mixture is thoroughly combined (2min). Make sure you stir well around the edges and at the bottom of the tin.
- Simultaneously, add the correct ratio of aggregates to the large mixer, and pour Eagle Stone Resin Mix for approximately 3-4 minutes.
- Pour the mixed resin and aggregate onto the support, then distribute it with a trowel to control thickness and consumption.
- Accelerating the resin. In very cold weather the eagle resin can be accelerated to speed up the curing process by applying a maximum of 150ml per 7kg pack.

HEALTH AND SAFETY

These safety recommendations for handling, are necessary for the implementation process:

- Skin protection: Use rubber gloves, remove them immediately after contamination.
- Wash thoroughly with soap and water after work and before eating, drinking, or smoking.
- Eye / Face: Wear safety goggles to prevent splashing.
- Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.
- For further information check the safety of a material data sheet of the product (MSDS)

TECHNICAL DATA OF THE BINDER

PROPERTIES		VALUES
Density	ISO 1675	1,00 ±0,05 g/cm ³
Viscosity	ISO 2555	1.700~2.500 cps
Density comp. A/B	ISO 1675	1,15 ±0,05 g/cm ³ / 1,00 ±0,05 g/cm ³
Viscosity comp. A/B	ISO 2555	1.000 ~1.400 cps / 2.800~3.100 cps
Solids content	ISO 1768	100 %
Tensile strength		7 ~8 MPa
Elongation at break		50 ~70 %
Hardness Shore D	DIN 53.505	>40
Pot life		±30 minutes
Dry time		3 ~4 hours
Ready to use: pedestrian /traffic car		8~10 hours / 1 day
Ambient/Substrate temperature range		3 °C ~ 30 °C / 5 °C ~ 25 °C
Mixing ratio (in weight) resin: aggregates		1:13,5