

# SatePox GP100

Transparent, solvent free, two component epoxy resin

## Properties

SatePox GP100 is a solvent-free reaction resin based on epoxy resin. It presents an excellent bonding strength to concrete, floor screed and steel and it is resistant to water, chemicals, mineral oil, gasoline and numerous alkaline solutions and acids, thermal stress and abrasion. With SatePox GP100, high compressive, flexural tensile and adhesive strengths will be achieved.

## Area of applications

SatePox GP100 is convenient as thick coat on dry and slightly moist, but not wet substrates binder for the production of resin based mortar, resin based coating on industrial floors bonding coat between old and fresh concrete adhesive for concrete, stone and wood bonding coat for mortar and concrete (PC).

### Sewage system construction

For the protection of sewers and for sealing bell joints of pressure pipe lines.

### Concrete roads and airports

For coating concrete surfaces and for leveling rutty concrete surfaces. For the repair of damaged edges of floor expansion joints with SatePox GP100 as a binder for resin based mortar.

### Bridge construction

Mixed with stone chips or quartz sand, there action resin is suitable for packing and bonding concrete slabs and steel plates.

## Product Data

Base	epoxy resin
Solvents	none
Colour	transparent
Consistency	liquid
Density	approx. 1.1 kg/dm <sup>3</sup>
Dry residue	100 %
Mixing ratio on weight	Comp A: 75 Comp B: 25
Pot life	30 minutes at +23°C for 200g
Application temperature	+8°C to +35°C (air and substrate)

Application	brush, roller, trowel
Layer thickness	depending on application
Number of coats	1 to 2
Delay between two coats	0.5 to 10 hours
Walkproof	1 day at +20°C
Curing time	3 to 4 days at +20°C
Consumption:	
-coat	approx. 200 to 400 g/m <sup>2</sup> per coat
-bonding coat	approx. 400 to 700 g/m <sup>2</sup>
Coefficient of water vapor diffusion resistance	approx. 50.000 H <sub>2</sub> O
Temperature resistance after curing	+140°C dry heat +80°C humid heat
Cleaner, thinner	thinner AX

## Working instructions

### Preparation of substrates

The substrate may be dry or slightly moist, but must be stable, rough, clean and free from oil and grease. Smooth, sintered, polished, cement powdered surfaces are unsuitable for coating if not pretreated by blasting to produce a rough surface before hand. Remove bituminous and tarry coats completely.

### Mixing

Empty the component B in the component A in order to achieve a ready to use product. Mix both components in the lower container with an electric drill.

### Application as coating

When coating concrete, render or floor screed, a clean and stable substrate free from oil and grease is required. Remove coats of laitance beforehand, one or two top coats of SatePox GP100 are applied. The waiting time between two applications should be such that the coat is still tacky when applying the next one, for otherwise a bonding between the coats cannot be expected.

Spreading a liberal amount of quartz sand over the coat will allow longer waiting times and increase the bonding strength. Depending on substrate, amount applied, temperature and air circulation, this time may reach from 0.5 to 10 hours.

## Consumption

Coat 200 to 400 g/m<sup>2</sup>/coat

Bonding coat 400 to 700 g/m<sup>2</sup>

High grade coating depending on the mixing ratio, e.g. 1 volume SatePox GP100 + 4 volumes sand (0 to 4 mm)

For a layer thickness of 6 mm: 2 kg of SatePox GP100 per m<sup>2</sup>

Adhesive depending on the mixing ratio and on the roughness of the substrate approx. 1 to 2 kg/m<sup>2</sup>

## Delivery and storage

SatePox GP100 is transparent and delivered in two component, 10 kg and 30 kg containers.

Can be stored dry and in original sealed packing for at least 12 months.

Products based on epoxy resin tend to a partial crystallization under the influence of frost. Material that has been exposed to frost will become workable again under the influence of heat. Before mixing, the material must be recooled for otherwise a premature curing will prevent its application.

## Notes

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