

# SatePox TC 120

## Colored, solvent free two component epoxy resin

### Properties

SatePox TC 120 is a solvent free epoxy resin. It presents an excellent bonding to concrete and floor screed and is also resistant to water, chemicals, gasoline, mineral oils, numerous alkalis and acids.

It has high compressive and flexural strengths and good bonding strength to concrete and cement screed. It is resistant to abrasion and temperatures.

The product slightly tends to become yellow but this has no influence on its technical properties. The coloured pigments are highly resistant.

### Area of applications

SatePox TC 120 is suitable with or without oven dried silica sand for many applications on industrial and commercial horizontal surfaces.

It is used for abrasion and impact resistant floor coating and paint and thick coating.

### Product Data

Base	epoxy resin
Solvents	none
Colour	RAL colours
Consistency	liquid
Density	approx. 1.5 kg/dm <sup>3</sup>
Dry residue	100 %
Mixing ratio	resin base : 85 hardener : 15
Pot life of 200 g at +23°C (DIN 16945)	approx. 30 minutes, larger amounts and higher temperatures cause shorter pot life
Application temperature	+10°C through +35°C (air and substrate); surface > 3°C above dew point temperature
Application	brush, roller or trowel
Layer thickness	according to application
Number of coats	1 to 2
Consumption	see "Consumption"
Delay between two coats	max. 10 hours
Open to pedestrian traffic	1 day at +20°C
Curing time at +20°C	7 days
Cleaner	thinner AX

### Working instructions

#### Mixing

The amount of hardener within the upper part of the two component pre measured kit is adjusted to the resin base within the lower part. Mix at low speed according to kit size. Mixing time is 2 minutes. If the compound is filled into an empty container after mixing and mixed for another minute, a better mixing is achieved.

#### Pot life

The pot life depends on temperature and kit size; it amounts to approx. 30 minutes for SatePox TC 120 (without silica) at a quantity of 10 kg and a temperature of +23°C. Larger packagings and higher temperatures will reduce the pot life.

#### Preparation of substrates

The substrate must be dry, firm, non slippery, clean and free from oil and grease. Smooth, sintered and cement powdered surfaces are unsuitable when not treated by milling or sand blasting in order to achieve a clean and rough substrate.

#### Application as paint

For painting on concrete or floor screed the substrate must also be clean, firm and free from oil and grease. Use SatePox PR 10, SatePox PF as a primer. As finishing coat apply SatePox TC 120 once or twice on the still tacky priming coat. Sanding of the coatings allows a longer waiting time and increase the bonding strength. Depending on substrate, amount of application, temperature and ventilation, this waiting time may vary between 1 to 10 hours. Prior to further work excessive sand must be removed.

#### Precautions

When still fresh and not yet cured epoxy coatings may not be exposed to sunrays as otherwise blistering may result due to water vapor pressure. Epoxy or polyurethane resins require a compressive strength of the concrete of at least 30 N/mm<sup>2</sup> and a bonding strength of the concrete surface J 1.5 N/mm<sup>2</sup>.

### Consumption

Paint: 300 to 500 g/m<sup>2</sup> per coat.

### Delivery and storage

SatePox TC 120 is delivered in the main RAL colors, in 20 kg container (set). Can be stored at a dry, cool, place in original sealed packing for at least 12 months. Products based on epoxy resin tend to partial crystallization when exposed to frost. Material exposed to frost can be used again when warmed up to +30°C. Before mixing, the material must cool down again, for otherwise the application will be impossible due to too rapid curing.

### Notes

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