

REPOX® 550

Epoxy Paint and Coating

Description

Epoxy resin based, double component, durable and easy-to-clean **paint** and **coating** material. Has high surface hardness and high chemical, water and mechanical resistance. Does not contain solvent.

Application Areas

- Indoor
- Concrete and metal surfaces
- As a paint on machinery, buildings and building parts made of metal
- Hygienic places such as hospitals and laboratories
- Water tanks
- Wine, beverage (except concentrated fruit syrup), meat, fish and similar food industries
- Laundries, industrial kitchens and dining halls
- Factories, warehouses and parking garages
- Data processing and control centers
- Airplane maintenance hangars.

Advantages

- Does not contain solvent
- Resistant to chemicals, inorganic acids and water
- Has high mechanical and abrasion resistance
- Hygienic and suitable for sterilised conditions, easy to clean
- Has high surface hardness.

Consumption

200 - 400 g/m² (for 125 - 250 µ dry film thickness in single layer) (Varies depending on the absorption and roughness of the surface and the method of application.) A second layer can be applied if required.

Packaging

Sets of 30 kg (A+B) tin cans

Technical Properties

Components	A: Epoxy resin, B: Hardener
Color	Standard RAL colors (Except metallic, phosphorous colors and colors beginning with 4000)
Mixture Rate	A: 25.8 kg, B: 4.2 kg
Mixture Density	1.60 ± 0.05 kg/L (20°C TS EN ISO 2811-1) (A+B)
Viscosity	4,000 - 9,000 mPas (20°C)
Compressive Strength	40 - 50 N/mm ² (DIN 53504 TS 1967) 7 days
Bond Strength by Pull-off	> 2 N/mm ² (EN 1504-2) 7 days
Tensile Elongation	> 10% (DIN 53504 TS 1967) 7 days
Abrasion Resistance (Taber)	< 100 mg, 1000 cycle (EN 1504-2)
Impact Resistance	Class III (EN 1504-2)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m ² · h ^{0.5}) (EN 1062-3)
Solid Content (Mixture)	By weight 100%, by volume 100%
Hardness (Shore D)	75 ± 5 (ASTM D 2240, DIN 53505)
Pot Life	50 - 70 minutes (23°C, 200 g, DIN 16945)



Technical Data Sheet (TDS)

Form No: 5.01 TDS Repox 550
Rev: 02 – 05/2018

Date
18 March 2019

Page
2 / 2

Application Temperature	Between +10°C and +30°C
Dirt Pick-up Time	60 - 90 minutes (23°C TS 4317)
Dry to Touch Time	5 - 7 hours (23°C TS 4317)
Time to Use	24 hours (23°C TS 4317)
Complete Curing Time	7 days (23°C TS 4317)

* Application instructions and technical data provided for the products are obtained in line with our experience and the tests are implemented according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.

