

# Duropoxy Clear 100

Epoxy Based Durable Floor Sealer

## Technical Data Sheet

### DESCRIPTION

**DuroPoxy Clear 100** is a solvent free, non- pigmented two component epoxy based sealer. **DuroPoxy Clear 100** is used as a sealer over dense concrete and cementitious surfaces and can also be used as a bonding agent suitable for epoxy resin systems. **DuroPoxy Clear 100** is applied to substrates such as concrete and cement screeds.

### FEATURES

- High adhesive strength – creates an extremely good bond to concrete substrates and aggregates
- Lower viscosity
- Excellent cure rate low temperatures
- Chemical resistance
- Excellent adhesion to dry, damp and or dense surfaces
- Multipurpose epoxy Clear Sealer
- Non- flammable
- Very low VOC content



### USES

- Dense concrete sealer
- Mortar sealer
- Screed Sealer
- Primer for trafficable epoxy systems
- Primer for polyurethane membranes
- Primer for damp substrates

## COMPONENT PROPERTES

Property	Resin	Hardener
Appearance	Straw to amber colour liquid	Straw to amber colour liquid
Specific gravity g/cm <sup>3</sup>	1.16 ± 3	1.03 ± 3
Viscosity @ 25°C	910 ± 50	100 – 300 cps

## MIXING AND CURING CONDITIONS

Property	RESIN / HARDENER
Mix ratio by weight (resin/ weight)	100/50
Solids Content	100%
Mixed specific gravity	1.09 g/cm <sup>3</sup>
Work Time (150 grams)	16 ± 3 minutes @ 25°C
Ready for traffic	Less than 8 hours @ 25°C
Recoat time	16 to 24 hours @25°C

## Typical Physical Properties

Property	RESIN / HARDENER
Hardness	89 Shore D
Adhesion to concrete	>1.5 MPa
Service Temp (Max)	100°C

## APPLICATION

**Surface Preparation:** The surface must be clean and dry and free from loose particles, including dust, grease, coatings and curing compounds and other foreign matter. The substrate must be prepared by any way of degreasing, grinding or captive shot blasting to expose aggregate and provide a profile. Allow floor to dry if degreasing has been carried out, before applying **DuroPoxy Clear 100**.

The compressive strength of substrates shall not be less than 25MPa. A minimum direct tensile pull off is 1.5 MPa. The moisture content of substrate shall not be higher than 8% throughout and the temperature of the substrate must be 3°C above the current dew point.

**Mixing:** Prior to mixing, the temperature of the components must be between 10-30°C. Pour hardener into the resin container and ensure all contents in the hardener is emptied completely. To achieve a homogeneous mix, both parts must be mechanically stirred with a mixing paddle at about 300-600 rpm. Ensure the mixing device reaches the side and bottom of the vessel and stir for 2 minutes and scrape down the sides of the drum and mix for another 1 to 2 minutes until uniform.

**How:** After mixing, allow mixed material to stand for 5 minutes, then apply the Duropoxy Clear 100 to the clean substrate using a brush or roller. The working time is decreased by increase in temperature and lower temperatures will extend the working time. To fully cure the product the substrate temperature must not fall below 5°C in the first 24 hours.

**Curing:** After application, the DuroPoxy Clear 100 should be protected from direct contact with water for approximately 6 hours at 25 ± 3°C.

## ESTIMATING DATA

The consumption will depend upon substrate condition or type. Apply to give a coverage of 0.2mm thickness per square metre. A second coat of Duropoxy Clear 100 may be required for porous substrate.

Coverage rate will be approx. 5M<sup>2</sup> per litre.

## STORAGE

**Duropoxy Clear 100** should be stored in its original sealed containers for up to 12 months in controlled environment. Place out of direct sunlight at temperatures between 15-30°C.

## PACKAGING and COLOUR AVAILABILITY

Duropoxy Clear 100 is supplied as an 8.1L Kit (5.4L Resin / 2.7L Hardener).

**Colour:** Clear Amber

## CLEANING

Clean the tools and equipment with rags, then wipe off using a solvent such as xylene before the resin system hardens.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use the product, please make sure that you obtain a copy MSDS.