

Duropoxy SLT 2000

Epoxy Based Robust High Build Coloured Floor Coating

Technical Data Sheet

DESCRIPTION

DuroPoxy SLT 2000 is a solvent free, durable floor coating based on a hard wearing, two component epoxy resin system. The cured floor provides excellent resistance to chemical and mechanical damage. There is a mirror surface finish for this product that is glossy and durable. This product can be applied so a 2mm profile can be achieved in one coat.

FEATURES

- Kits – no onsite mixing errors
- 100% solvent free
- Extended working time
- Chemical resistance
- Bonds to damp surface
- Chemical resistant
- Non-flammable
- Can be coloured – enhance the solution for client needs



USES

- Workshops
- Garage floors
- Factory floor
- Warehouses
- Shop floors

COMPONENT PROPERTES

Property	Resin	Hardener
Appearance	Straw to amber colour liquid	Straw to amber colour liquid
Specific gravity g/cm ³	1.8 ± 0.05	1.06 ± 0.05
Viscosity @ 25°C	14,000 – 18,000 cps	100 – 300 cps

MIXING AND CURING CONDITIONS

PROPERTY	RESIN / HARDENER
Mix ratio by weight (resin/ weight)	100/15
Solids Content	100%
Mixed specific gravity	1.69 gms/cm ³
Work Time (150 grams)	60 minutes @ 25°C
Recoat Time	Less than 12 hours @ 25°C
Ready for foot traffic	24 - 48 hours @25°C
Ready for vehicular traffic	48 – 72 hours @ @25°C

Typical Physical Properties

Property	Method	RESIN / HARDENER
Hardness	AS/NZS 1683.15	60 Shore D
Tensile Strength	AS/NZS 1683.11	25MPa
Compressive Strength	ASTM D1621-04	70 MPa
% Elongation	AS/NZS 1683.11	5%

These values are typical properties and are not to be used for specification

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.

Allow floor to dry after cleaning or degreasing before applying **DuroPoxy Primer 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.

Fill surface irregularities such as cracks, honeycombs with DuroPoxy aggregate system. Protect walls and columns against flashes using masking tape and polyethylene sheet.

Mixing: Prior to mixing the temperature of the components must be between 10-30°C. All mixing should be done using a slow speed drill (300-600 rpm) and a spiral mixing paddle.

Add the hardener and continue to mix for 3 minutes. Adhere to the mix ratio by weight 100/15 – resin to hardener.

Allow to stand for a minimum 15 minutes after stirring in cold weather (below 15°C or above 8°C). Ensure all the containers are empty before disposal. Allow to stand for 5 minutes at 25°C.

2mm thickness can be achieved in one coat by applying and spreading with 2 mm trowel applicator. The working time will vary depending on ambient conditions, quantity mixed and placed (see Dry and Curing times).

The following restrictions must be observed:

- Only apply the coating when the substrate temperature is at least 3°C above the dew point.
- Do not apply the coating if the substrate is below 5°C.
- Do not apply the coating if the substrate is wet or likely to become wet.
- Do not apply the coating if the weather is clearly deteriorating or unfavourable for application or curing.
- Do not apply coating in strong wind conditions.

DRY AND CURING TIME FOR SLT2000

Substrate temperature	15 °C	25 °C	40 °C
Walk-on-dry (hours)	32	12	8
Dried to over coat, minimum (hours)	32	12	8
Dried to over coat, maximum (hours)	72	48	36
Cured ready for service (hours)	96	60	48

ESTIMATING COVERAGE

The consumption will depend upon substrate condition or type. Apply to give a coverage of Xm2 per litre a second prime coat may be required for porous substrate.

Recommended film thickness per coat (SLT200 is designed for one coat)

Film thickness and spread rate	Dry film thickness (um)	Wet film thickness (um)	Theoretical spread rate (Litres/m ²)
Minimum	1000	1000	1
Recommended	2000	2000	2
Maximum	5000	5000	5

E.g. Apply 10 Litres to give an approximate coverage of 5M² at 2mm thick.

PACKAGING and COLOUR AVAILABILITY

Duropoxy SLT2000 is supplied as a 12.5L Kit (10L Resin / 2.5L Hardener).

Light Grey	Neutral Grey	Koala Grey	Charcoal	Homebush Yellow	Red Oxide
(INSERT IMAGE)	(INSERT IMAGE)	(INSERT IMAGE)	(INSERT IMAGE)	(INSERT IMAGE)	(INSERT IMAGE)

Colour variation may occur when exposed to continuous sunlight and weathering. This will not affect the performance of the top coat.

Other colours are available, minimum quantity will apply.

STORAGE

Duropoxy SLT2000 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.

CLEANING

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

HEALTH and SAFETY

Please observe the precautionary notices displayed on container. Use under well ventilated conditions. Avoid skin contact. Spillage on the skin should be removed immediately with suitable cleanser, soap and water. Eyes should be well flushed with water and seek medical attention immediately.

For the full health and safety hazard information and how to safely handle and use the product, please make sure you refer to relevant MSDS.