

SURECOTE 200

Solventless, Epoxy Floor Coating

PRODUCT DESCRIPTION

Surecote 200 is a solventless, two component, heavy duty epoxy floor coating. For use over concrete floors and drains where protection from corrosion and chemical attack is required. It is recommended for use in the food, beverage, oil, chemical, automotive, marine, fertiliser, manufacturing and mining industries, and in hospitals, schools and kitchens.

BENEFITS

Adhesion

Surecote 200 has excellent adhesion to concrete and other substrates.

Chemical Resistance

Surecote 200 is resistant to a range of dilute acids, alkalis, salts and solvents. The treated surface eliminates dusting and is readily cleaned.

Solvent Free

Surecote 200 contains no volatile solvents thus minimising any problems of odour contamination.

Non-Slip

Surecote 200 can be applied using the 'spread and sprinkle' technique to produce non-slip surfaces for maximum safety.

Hygienic

Surecote 200 is seam-free, waterproof and does not support bacterial growth and is readily cleaned.

Durable

Surecote 200 is durable and resistant to mechanical abrasion.

APPROVAL

Approved by the Queensland Department of Works as a coating with minimal volatile organic compound emissions, for use in internal, permanently unventilated environments.

SPECIFICATION

Primer

Not normally needed to assist adhesion, however, **Surecote 200 Primer/Sealer** may be needed on porous concrete to overcome pin-holing in the first coat of **Surecote 200**

Recommended Thickness

Recommended dry film thickness of **Surecote 200** is 340-450 microns.

Application Rate

Surecote 200 should be applied in two coats at rates of 4-5 m²/L (0.2-0.25 L/m²) and 5-7 m²/L respectively.

Colour

Standard colours are white, fawn and grey. Special colours are available for quantity orders are called **Surecote 200 FG**.

Non-Slip Additive

Silica sand (30-60 mesh or 60-100 mesh) can be broadcast into the first coat of Surecote 200 while still wet. When the first coat is set, remove the excess sand prior to application of the final coat of **Surecote 200**.

LIMITATIONS

Surecote 200 is not suitable for exterior use, or other areas of high UV radiation exposure, without a light stable finish coat (consult a Nuplex Construction Products Manager).

Avoid working in conditions that could cause condensation to form on the uncured coating (i.e. high humidity or when the temperature is close to the dew point) as it can interfere with subsequent intercoat adhesion. If the surface is affected in this manner it will require "roughing" prior to re-coating.

Dry Time and Recoat Time

Dry time and recoat time will depend on temperature, however, as a guide at 20°C, summer-grade material will be tack free within 24 hours while winter-grade material will be tack free within 10 hours. Should the material not be recoated within 24 hours, the surface will require abrasion or solvent washing to reactivate the surface prior to recoating.

Storage of Materials

Do not store the product at temperatures below 0°C. Unopened containers have a shelf life of 12 months at 24°C.

Safety

Refer to Material Safety Data Sheets. Avoid skin contact. Mix in a ventilated area.

Typical Wet Properties

- Density**
- Comp A: 1.68 – 1.74 kg/L
 - Comp B: 1.00 – 1.04 kg/L (summer-grade)
 - Comp B: 1.00 – 1.40 kg/L (winter-grade)
 - Comp C: 1.61 kg/L

- Solids**
- Comp A: 100% by volume
 - Comp B: 100% by volume

**Flash Point (Pensky A:
Martens Closed Cup):** 100°C

Theoretical Coverage: 1mm m²/L

Theoretical Application - Rate @ 0.45mm dft): 0.45 L/m²

- Pack Size**
- Comp A: 20 kg (about 12 L)
 - Comp B: 4 kg (about 4 L)

- Viscosity**
- Comp A: 25,000 – 35,000 cps
 - Comp B: 450 – 900 cps (summer-grade)
 - Comp B: 800 – 1400 cps (winter-grade)

- Appearance**
- Comp A: Coloured paste
 - Comp B: Water-white liquid

TYPICAL PROPERTIES OF SURECOTE 200

PROPERTY	TEST METHOD	TYPICAL RESULT
Hardness	ASTM D2240-91, short A	96
Compressive Strength 1 (3% Strain)	AS 2498.3	49 MPa
Flexural Strength (2.74 mm Strain)	ASTM D790.92	29 Mpa (no failure)

Notes:

1. Sample 50 mm cube
2. Beams: 35 x 35 mm nominal cross-section, 240 mm span, centre load.

ADDITIONAL INFORMATION AVAILABLE

- Material Safety Data Sheets
- Chemical Resistance Chart

CHEMICAL RESISTANCE

SURECOTE 200 & SURECOTE 300

ACIDS		MISCELLANEOUS	
Acetic Acid	NR	Wine	R
20% Hydrochloric Acid	R	Water @ 20°C.	R
5% Nitric Acid	R	Water @ 40°C.	LR
10% Nitric Acid	NR	Water @ 80°C.	NR
10% Oxalic Acid	NR	Silicone Oil	R
ALKALIES		Phenol	NR
Ammonia	R	Kerosene	R
Sodium Hydroxide	R	Formaldehyde	R
SALTS		Diesel Oil	R
Sodium Chloride	R	Crude Oil	R
SOLVENTS		Caster Oil	R
Acetone	NR	White Spirit	R
Butanol	LR	Vegetable Oils	R
Ethanol	LR	Petrol	R
Glycerol	R	Mineral Oils	R
Methanol	NR	Jet Fuel	R
Benzene/Xylene	LR	Hydraulic Fluid	LR
Heptane	NR	Amines	NR
Methylene Chloride	NR		
Cyclohexane	R		

Legend

NR = Not recommended

LR = Limited resistance (suitable for short time exposure)

R = Resistant (suitable for long term exposure)



Epo Coat

DESCRIPTION

100 % solids (solvent free) two-pack cycloaliphatic amine cured epoxy, designed for applications demanding high structural integrity. A multi-purpose epoxy coating for roll coats or base coats under seamless flooring, excellent adhesion and high structural strengths. The exceptional resistance to a wide variety of chemical spillage and fumes makes this product ideal for use in domestic, commercial, heavy industry or marine environments.

TYPICAL APPLICATIONS

Domestic
Pulp and paper mills
Refineries
Sewerage treatment plants
Water storage tanks
Food processing plants
Seamless Flooring

FEATURES

Easy to roll
Tile-like finish
Good chemical resistance
Excellent adhesion
High build application
Variety of colours
Ideal base coat

GENERAL PROPERTIES

Solids content	100 % w/w
Work time per pack	0.5 hours
Tack Free Time	4hrs @ 25 degrees C
Finish	Gloss
Abrasion Resistance	Very Good
Tensile Strength	Up to 90 Mpa
Mix Ratio	3 Parts Resin with 1 part Hardener
Appearance	Water white liquid

RESISTANCE TO CHEMICAL SPILLS (7 days at 25deg.C)

Ammonia Solution (20%)	Sodium Hydroxide (30%)
Sulphuric Acid (30%)	Kerosene
Lactic Acid (5%)	Aviation Fuels
Sodium Chloride (50%)	Petrol
Tannic Acid	Hydrochloric Acid (20%)

EXTRA INFO

Coverage: approx 5m² per litre
Porous concrete: 3m² per litre
Prime: Epo Coat - thinned with 20% xylene
Re-Coat: 8-48 hours
Full Cure: 7 Days
Trafficable: 2 Days