

SmartEpoxy C-100

Two Components Epoxy Coating

SmartEpoxy C-100 is two component solvent-free coloured heavy-duty epoxy coating system for the protection of concrete surfaces. It is used where a high degree of wear resistance and chemical resistance is required. **SmartEpoxy C-100** provides a dustproof and seamless maintenance surface with an attractive glossy finish. Foot traffic can be allowed after 24 hours and heavy traffic in 3 days.

FIELDS OF APPLICATION

- Parking decks
- Laboratory and hospital rooms
- Automotive industry floors
- Industrial floors
- Warehouses
- Food industries flooring

BENEFITS

- Excellent chemical resistance
- Excellent wear resistance
- Dust-proof floor surfaces
- Reduces water and salt absorption
- Excellent bond to concrete
- Aggregates can be added into coating for better skid resistance

TECHNICAL DATA

PROPERTY	TYPICAL RESULTS
Solid Contents	100%
Pot Life @ 35°C	40 minutes
Wet Film Thickness	200 µm/coat
Dry Film Range	200 - 250 µm
Touch Dry	
@ 25°C	5 hours
@ 35°C	3 hours
Hard Dry	
@ 25°C	9 hours
@ 35°C	7 hours
Finish	Gloss
Full Cure @ 30°C	5 days
Flash Point	> 90°C
Mix Ratio (Base : Hardener)	3 : 1

• All the data shown are based on controlled laboratory test (T=27±2°C and RH=60%)

SURFACE PREPARATION

- For concrete in direct contact with the ground, a vapour resistant barrier layer should be installed below the concrete. This could be a polyethylene sheet or waterproofing membrane.
- Concrete surfaces must be clean, dry, sound and free of contaminants.
- New concrete must be fully cured for at least 28 days and protected from contaminants.
- Old or weak surfaces should be prepared by grinding, water-jetting, shot blasting or grit blasting. Acid etching should only be used where there is no other practical alternative.

PRIMING

- Prime the substrate with at least 1 coat of **SmartEpoxy S-20**.

MIXING

- Before mixing, each container should be stirred thoroughly to disperse any settlement which may have taken place.
- Pour the entire content of the smaller (hardener - 6.67 litres) container into the bigger container (base - 13.33 litres) and mix thoroughly with a slow speed drill fitted with a purpose-made paddle.
- Do not dilute with solvents. Partial mixing is not allowed.
- Once mixed, apply immediately and as required.
- When mixing with aggregates, allow 1 - 2 minutes of standing time for the bubbles to break up after mixing. Apply and then spike roll sufficiently to ensure coating surface is free of bubbles.

PLACING

- Application for thin coatings can be done by using a short nap roller. Use long strokes to avoid puddling.
- Apply in two coats. The second coat is applied when the first coat has completely dried (10 - 12 hours, depending on the ambient conditions).
- Can be mixed with aggregates (50 - 150 µm max. in diameter). Add aggregate into base component. 10 - 20 kg aggregates per 20 litre sets is recommended.

CURING & PROTECTION

- Do not allow traffic on the coating surface for at least 16 hours (at 25°C and above) after application.
- At 30°C, full cure is achieved in 5 days.

COVERAGE / YIELD

Approximately Coverage: 6.7 m²/litre

Note: Actual coverage depends on the substrate surface conditions and coating thickness.

PRECAUTIONS

- Not suitable for exterior use as prolonged exposure to sunlight will lead to chalking and loss of gloss.
- Product is flammable and adequate ventilation must be provided.
- Avoid eye and skin contact.
- Gloves, goggles and dust mask should be worn.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartEpoxy C-100 is supplied in 20 litre sets and has a shelf life of 12 months if kept in a cool and dry place in sealed packaging with sheltered protection from rain and sunlight.

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.