

SOLIDKOTE 345 LV

Low Viscosity Penetrating Epoxy Sealer

Solidkote 345 LV is a low viscosity penetrating epoxy resin produced from Bisphenol-A epoxy and reactive diluents.

Solidkote 345 LV also provides good penetration into ply wood and glass fiber matt and concrete. Ideal for crack injection.

UNIQUE PRODUCT BENEFITS

- Low viscosity
- Good adhesion to concrete
- Highly durable with good wear resistance.
- Good chemical resistance.
- Good deaeration
- Good fibre wetting
- Low odour, solvent free and non-toxic

APPLICATIONS:

- Glass fiber lamination.
- Ply wood sealing and saturation.
- Low viscosity clear casting resin.
- Recommended to be used to saturate and penetrate and thus seal and strengthen surfaces.

SUBSTRATE REQUIREMENTS

Polystyrene

Polystyrene blanks should be primed and sealed with S-FILL.

Wood

Wooden substrates are to be suitably sanded, existing coatings are to be removed. Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

TECHNICAL DETAILS

Compressive Strength	60 MPa	BS6319
Tensile Strength	50 MPa	
Concrete Adhesion	> 1.5 MPa	ASTM D7234
Hardness	75	Shore D
Water Uptake (Permeability)	Nil	Karsten Test
Service Temperature	70°C max dry	
Solids Content	100%	
Pot Life	25 min. @ 25°C	
Tack Time	4 to 5 hrs	
Sandability	12 hrs	
Overcoat	4 to 18 hrs	
Full Cure	5 to 7 days	
Components	2	
Mix Ratio	2 : 1 by volume	
Colour	Clear	
Finish	Gloss	
Epoxy Viscosity	600 to 1000 CPs	
EEW	200	
Activator Viscosity	60 to 100 CPS	
AHW	86	
Coverage	5 to 6 m ² / L	
Dry Film Thickness	150 to 200 µm	
Application	Squeegee, roller or brush	

PACKAGING

Two component 3 L

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

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Concrete

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. The moisture content should be less than 5% and free from rising damp.

Note: Any filling of blowholes / voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION

Remove all previous coatings, (including un-bonded concrete) and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

INSTALLATION:

Ensure application conditions of 15 to 28°C (and that concrete has a moisture content below 5%).

Mixing

Slowly add the Part 2 into Part 1 and stir thoroughly for 2 to 3 minutes. Mix with smooth and slow movements to avoid the incorporation of air. Ensure the mixing paddle scrapes the sides of the mixing vessel.

Placing

Pour the entire mix onto the surface and roll or squeegee out to the required thickness. A spike roller can be used to assist with levelling and de-aeration. Using a mohair roller, back-roll the first coat to work the product into the substrate. Lightly sand (80 to 120 grit) to remove any projections and to ensure a smooth finish. Vacuum the floor and wipe down with a damp cloth to remove all traces of dust on the surface before applying subsequent coats.

A second coat may be applied once the first coat is thoroughly touch dry (4 to 12 hrs), and within 18 hrs. Alternatively one thick coat can be applied if the surface does not need to be primed with the first coat to seal any pores.

WATCH POINTS

Adhere to mix ratios as supplied and do not mix partial batches. The use of spike shoes is required. Do not thin with water or solvent. Equipment should be washed with epoxy thinners before product has hardened, once hardened it can only be removed mechanically.

MAINTENANCE

Regular cleaning extends the service life of the Solidkote 345 LV. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID). If a double headed rotary scrubber drier is used, a soft pad is recommended. Damaged areas of the system should be patch repaired to ensure longevity of the working area.

HEALTH AND SAFETY

The system is solvent free and non-flammable but may be hazardous during mixing and application.

Please read Safety Data Sheets and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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