



Hall's
MANUFACTURING

Hall's Water Based Epoxy

Technical Data Sheet



Solidkote WB is an easy to use, twin pack, water-based epoxy coating for floors and walls which provides a breathable, easy to clean, and a attractive semi-gloss finish.

The water based system has very low VOC content making the coating environmentally friendly. The coating may be applied to damp surfaces such as green concrete that is less than 28 days old.

UNIQUE PRODUCT BENEFITS

- Highly durable. Hygienic and scrub resistant.
- Non-toxic. Solvent-free.
- Vapour permeable – breathable.
- Damp and green concrete tolerant.
- Cost effective coating. Easy to apply by roller or spray methods. Flexible and long lasting.
- Water thinnable.

TECHNICAL DETAILS

Appearance	Various colours
Finish	Semi-gloss / Satin
Solids content	42%
VOC	49.44 g / L
Coverage	5 - 8 m ² / L
Pot life	15 - 20 min
Gel time	30 - 40 min
Mix Ratio	4:1
Thinning	Up to 5% clean water
DFT	120 um, 2 coats
Cure Times	Over-coating 6 hours
Light Traffic	24 hours
Full Cure	7 days
Thermal Resistance	70 °C and below
Vapor Permeability	20 g / m ² / mm / 24 hrs
Bond Strength	> 1.5 MPa
Chemical resistance	Mild acids and alkalis, splash resistant to solvents
Shelf-Life	6 months in unopened containers kept cool and dry and protected from freezing

PACKAGING

Two component 5 L or 25 L

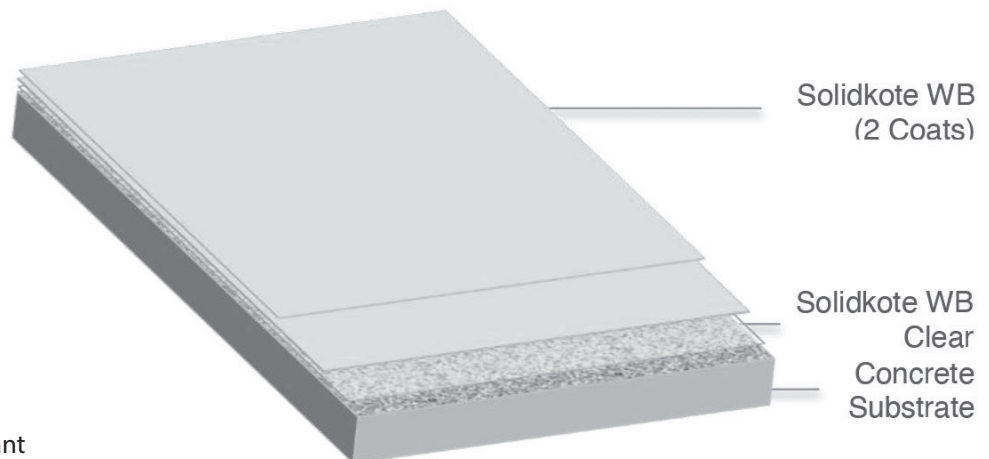
PRODUCT COLOUR RANGE :



*Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch. UV exposure yellowing is more prominent in light colours yet does not affect performance.

APPLICATIONS:

- Floors and walls
- Food process areas
- Breweries
- Dairies
- Kitchens
- Workshops
- Storerooms
- Garages
- Light industrial areas
- Anywhere cleanliness is important



PREPARATION

Concrete or screed substrate should be a minimum of 20 MPa, free from laitance, dust and contamination. Old or worn coatings should be lightly grinded to profile and texture the surface for sufficient bonding. Repair defects in the floor with **Techfin GP Epoxy** (2 hour overcoat) or **Techfin GP Grout** (12 hour overcoat) and sand the repairs smooth before coating.

Dirty floors to be coated should be degreased with **Liquid Action**. Ensure all dust has been vacuumed from the substrate surface. Dense, power floated concrete floors, should be acid etched with **Concrete Etchant**, rinsed thoroughly and then neutralized with **Liquid Action**. This ensures better penetration into the floor and subsequent improved adhesion.

PRIMING

Ensure application conditions of 15 to 28°C. Apply one coat of Solidkote WB thinned with 5% water. Self-priming.

MIXING & APPLYING

Mix the **Part A** (colour) thoroughly by itself. Add the **Part B** slowly to the Part A while mixing. Mix the Part A and Part B together thoroughly with a mechanical mixing tool or drill fitted with a suitable paddle for a period of 2 - 3 minutes. Do not allow the product to stand in the bucket. Mixed product must be used as quickly as possible. As a general rule when coating floors with epoxies it is advisable to pour the mixed product out onto the floor, spread with a

MAINTENANCE

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent such as **Liquid Action** (see datasheet). A soft pad is recommended.

trowel or squeegee and back roll to obtain a uniform finish. This extends the working time considerably.

When coating walls, ensure enough applicators are on standby. Decant the mixed product into 2 - 3 paint trays and roll onto the walls immediately. The product will remain workable for 10 - 15 minutes.

Porous floors, i.e. floors that absorb water rapidly, should be given a first coat and allowed at least 6 hours to cure. Rough concrete surfaces may require a scraper coat that will require a portion of Silica powder to be added to the mixture to produce a viscous levelling scraper coat.

Best results are achieved with a two coat system. Apply Solidkote WB Epoxy with a PVA / Mohair paint roller or brush. Solidkote WB Epoxy may also be applied by spray methods. When the first coat is thoroughly touch dry, apply the next coat at right angles to the first coat. Do not leave more than 48 hours between coats. To ensure inter-coat adhesion is adequate, a light sanding of the coating is recommended in cases where subsequent coats are applied later than 48 hours.

WATCH POINTS

Adhere to mix ratios as supplied and do not mix partial batches. Discard any mixed material left over from the previous day. Water is the only thinners confirmed compatible. Ensure there is good ventilation for an even satin finish across floor (no patches with matt finish).