



Hall's
MANUFACTURING

Solidkote UVC Polyurethane Coating

Technical Data Sheet

SOLIDKOTE UVC

Twin Pack Polyurethane Coating

Solidkote UVC is a twin pack, acrylic modified, aliphatic polyurethane coating formulated to obtain a UV stable, non-chalking, high gloss finish with excellent gloss retention. The coating exhibits excellent resistance to weathering while displaying superior flexibility, high abrasion, acid, alkali and solvent resistance. Solidkote UVC bonds very well to a variety of substrates including concrete, metal, wood, tiles and natural stone. The product dries rapidly to a slick durable and desirable finish. Available in pigmented, clear gloss and clear matt versions.



TECHNICAL DETAILS

Solids Content	40%
Pot life	4 hrs (in can)
Tack Time	45 min
Surface Dry	4 hrs
Walk on	6 - 8 hrs
Overcoat	12 hrs
Full Cure	5 days
Components	2
Mix Ratio	4:1 (vol / vol)
Colours	Standard Colours & Matt Colours
Clear Coats	Gloss or Matt
Coverage	7 to 8 m ² / L
Dry Film Thickness	60 µm per coat (two coats recommended)
Application	Roller or Airless Spray
Service Temperature	107 °C Max
PACKAGING	
Two component 5 L or 25 L kits	

BENEFITS:



*UV stable.
(does not yellow)*



High abrasion resistance & exceptional mar and scratch resistance.



Non slip finish additive can be incorporated for wet areas.



Easy to apply, self-priming with excellent adhesion.



*Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch.

APPLICATIONS:

- Suitable for interior and exterior surfaces.
- Maintenance and demarcation.
- Surface renewal and refinishing.
- Concrete floors, structural steel, chemical plants, food factories, plating facilities, laboratories, exterior tanks, marine application above water-line.
- Excellent for wooden substrates.
- Ideal coating where outstanding colour and gloss retention is mandated.
- Not tolerant to wet damp surfaces.

SUBSTRATE REQUIREMENTS

Concrete Floors

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. The surface finish of the concrete should be class 2 (AS 3610).

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

Concrete Floors

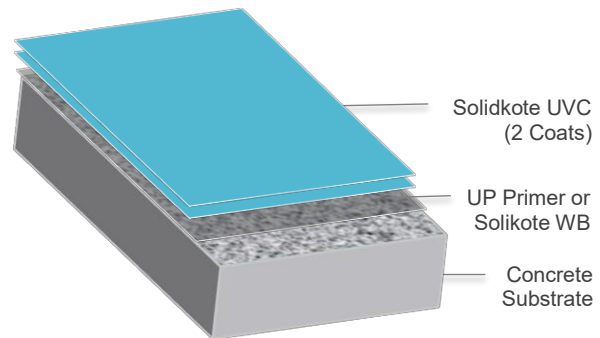
Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

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.

Steel

Steel surfaces require abrasive blast cleaning (Sa 2 $\frac{1}{2}$, ISO 8501-1: 1988) with a blast profile that does not exceed 50 μ m, alternatively the steel can be prepared mechanically to Grade St3.



Mechanical cleaning is, however, not as effective as abrasive blasting and results in a shorter maintenance free life.

PRIMING

Concrete Floors

Ensure application conditions of 15 to 28°C and that the concrete moisture content is below 5%.

Prime with Solidkote UP Primer or Solidkote WB.

Allow primer to cure for at least 16 hours prior to application of Solidkote UVC with a maximum over coating time of 48 hours.

Wood:

The first coat of Solidkote UVC is to be applied with a quality mohair roller. Lightly sand (120-grit) and vacuum the coated surface before applying the subsequent coats.

Steel:

Prime with Solidguard 88, to shot blasted steel 24 hours prior to the application of Solidkote UVC, for optimal adhesion properties. Use only in well ventilated areas.

MIXING & APPLYING:

Mix Part 1 thoroughly with a paddle or mechanical mixer.

Add the Part 2 into Part 1 and stir using a paddle or mechanical mixer for 2 minutes.

Apply the first coat using an airless spray or short pile mohair roller ensuring the coat is rolled out evenly and does not pool. Keep a wet edge and do not roll back onto the dry coating. A second coat may be applied after approximately 5 hours and within 24 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. **Solidkote 503 PU thinners** is the only thinners confirmed compatible. Ensure there is good ventilation during the application and drying. Since the system is moisture sensitive, keep equipment free of water and Part 2 containers tightly sealed when not in use.

NON-SLIP COATINGS:

Non-slip finishes require the addition of 1 x 200 g bag / 5 L kit of **Solidkote Non-slip** beads. Ensure periodic agitation to resuspend the non-slip bead.

MAINTENANCE:

Regular cleaning extends the service life of the Solidkote UVC coating. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID). Damaged areas of the system should be patch repaired in order to ensure longevity of the working area.

HEALTH AND SAFETY:

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

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.