

SOLIDKOTE PU

Single Pack Moisture Curing Polyurethane Coating

Solidkote PU is a tough, hard, single pack polyurethane coating with outstanding resistance to chemicals, abrasion and wear. Solidkote PU exhibits a flexible, glossy film finish with excellent stain and mar resistance. The product is economical, versatile, durable and attractive. Solidkote PU is easy to clean and maintain. Resistant to most chemicals, solvents, oil and grease.



BENEFITS:



Improves the durability of the floor surface.



Excellent to be used in areas subject to chemical splash and spillage.



Protects metal surfaces from deterioration.



*Excellent adhesion properties.
Good flexibility.
Substrate versatility.*



Economical and quick drying.



Makes cleaning very simple.

TECHNICAL DETAILS

Appearance	Pigmented liquid
Odour	Aromatic solvent
Solids Content	55 %
Finish	Gloss
Coverage	5 – 8 m ² / L (Depending on surface porosity)
Cure Time	3 – 5 hrs (Recoat)
	12 hrs (Light traffic)
	3 days (Full chemical cure)
Flash Point	30 °C
Application Conditions	5 - 30 °C
Service Conditions	66 °C (Continuous)
	82 °C (Periodic)
Weathering	Not suitable for exterior use. Discolours
Abrasion Resistance	0.2 g Taber Abrasion
Priming	Self-priming
Thinning	Solidkote 503 PU Thinners
PACKAGING	
Single component 5 L and 25 L	



*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 causes yellowing, most prominent in light colours.

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APPLICATIONS:

- Sealing and protecting properly prepared concrete floors from wear and dusting.
- Excellent for heavy foot and vehicular traffic such as aisles, warehouse floors and ramps.
- Excellent metal coating for corrosion prevention and maintenance of machinery.

SUBSTRATE REQUIREMENTS

Surfaces to be coated should be well prepared by grinding, sanding or shot blasting. Substrates must be dry, clean, free of dust, oil and other coatings. Cleaning can be carried out using **LIQUID ACTION** or **SOLVEKLEEN WS** depending on the type of soiling. Metal surfaces may need to be etched using **PHOSETCH**. After cleaning, etching or degreasing allow to dry fully before coating.

INSTALLATION:

Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

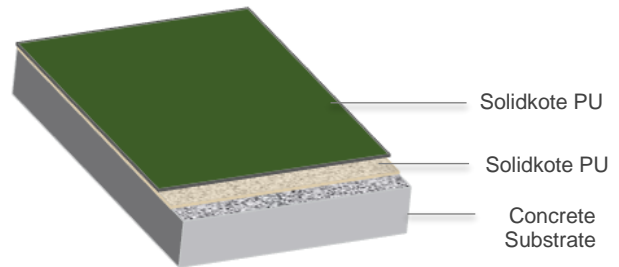
Ensure that the coating is well mixed before proceeding, there can be some settlement in the base of the drum. Thinning may be required for the first coat to penetrate. This may be done only with Solidkote 503 PU thinners at no more than 15 %.

Application

Apply the Solidkote PU with a mohair roller and roll out well using long strokes. The first coat should be left to dry for 3 – 5 hours, longer for very porous floors. Apply a further coat to obtain a uniform finish. Porous floors where the second coat has penetrated as well should be given a third coat to ensure uniformity. Apply each coat perpendicular to the previous coat to ensure uniform coverage. Allow at least overnight cure before light traffic, heavier traffic after 3 days.

Non-skid type surface application will require inclusion of **SOLIDKOTE NON-SLIP BEADS** at a rate of 200 g per 5 L (max 500 g / 5 L). This is incorporated into the coating by stirring and then applied as normal with a mohair roller. Non-skid surfaces are usually left to the final top-coat.

Spray methods may be employed. Use adequate air volume for correct application. Hold gun 200 - 250 mm from the surface and at a right angle to



the surface. Use a 50 % overlap with each pass of the gun. On irregular surfaces, coat the edges first and make an extra pass later.

The following equipment has been found to be suitable for Solidkote PU spray.

Use a 10 mm minimum I.D. Material Hose

CONVENTIONAL		
Mfr. & Gun	Fluid Tip	Air Cap
Binks #18 or #62	63B	63PB
DeVilbiss P-MBC or JGA FX (Approx. .043 ID)		704
AIRLESS		
Mfr. & Gun	PUMP*	
DeVilbiss JGB-507	QFA-514	
Graco 205-591	President 30:1 or Bulldog 30:1	
Binks Model 500	Mercury 5C	

* Teflon packings are recommended and available from pump manufacturers.

Use a 0.015" tip with 2000 psi. (138 Bar)

PRECAUTIONS

Do not apply Solidkote PU onto damp surfaces, the product is moisture curing and will result in an unsightly finish. Once a drum of Solidkote PU has been opened the entire contents must be used. Resealing of a drum is possible by tightly sealing the lid of the tin and storing the container upside down. Apply consecutive coats within 12 - 24 hours. If time is exceeded, light sanding of the surface will be required before application of a subsequent coat.

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CLEAN UP

Solidkote 503 PU thinners is the recommended cleaning solvent. Brushes and rollers cannot be cleaned suitably and should be discarded.

MAINTENANCE

Regular cleaning extends the service life of the Solidkote PU system.

STORAGE CONDITIONS

Store in original unopened containers in a cool, dry place between 4 - 43 °C and 0 - 90 % RH.

HEALTH AND SAFETY

SOLIDKOTE PU contains strong solvents – there must be no open flames or smoking in the vicinity. Ventilate the work area well and use a respirator made for use in solvent areas. Splashes on the skin should be removed immediately and washed with soap and water. Seek medical attention should eye contact occur.

Please read Safety Data Sheet 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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