



# SOLIDFLOOR PU

A Two Components Polyester Branched Polyurethane Coating



## BENEFITS

- > Seamless, monolithic application.
- > Hygiene, easy to clean.
- > High chemical resistance, against light or high traffic and trolley movement.
- > Hard wearing floor.
- > Wide range of color.

## DESCRIPTION

**SOLIDFLOOR PU** is a colored / clear; gloss, matt, satin ready to use solvent base two component coating based on high quality polyester branched polyurethane resin.

## USES

**SOLIDFLOOR PU** is used as colored / clear coating for areas with light, medium and high traffic. An extremely durable finish for interior and exterior use. Designed to resist chemical, ultra violet heat and abrasion, suitable for hardware areas such as industrial and commercial floor and wall, car park decks, garages, warehouse, pedestrian areas, laboratories, electronic clean room, pharmaceutical, refineries, printing pulp paper, mills, bridge tunnel, roofing and other industrial plant sectors where chemical resistance are required.

## HOW TO USE

**Surface Preparation :** Substrate concrete or screed should be a minimum of compressive strength 25 N / mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5 N / mm<sup>2</sup>. The substrate should be clean and free from laitance, oil, dust, loose constituents, paint residues, chemicals, algae and other contamination should be removed. The substrate should be dry and free from ground water pressure. If substrate moisture exceeded 4%, apply **SOLIDGARD EM** (compressive strength 60 N / mm<sup>2</sup>) 4 ~ 5 mm thick as a moisture barrier. The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly remedied. Prepare grooves 3 mm wide x 3 mm deep at all edges, bay joints columns, doorways and drains for anchoring purposes.

**Mixing :** Stir Part A for 30 seconds by using suitable electrical stirrer (with 750 RPM high power mixer), then add all of Part B (Hardener) and mix both liquid part thoroughly for one minute until it fully achieved a homogenous, then slowly add 5% of **SOLIDFLOOR PU** Thinner (if need) while mixing continues for further one minute 30 seconds until a fully homogenous mix has been achieved.



**Application :** By rolling, brushing or spraying. As finish we recommended to roll in one direction back roll with a wide short-pile mohair roller.

### Temperature Conditions of Applications :

- > Do not apply when the relative humidity exceeds 90% or when the surface to be coated is less than 5% above the dew point.
- > Do not apply temperatures below 5 °C and temperatures above 40 °C.

**Maintenance and Care After Cure:** We recommend basic cleaning and maintenance will prolong the life of epoxy floors, clean regularly using a single or double headed rotary scrubber drier in conjunction with alkaline detergent.

**Further Information:** Warning and precautions information relating to the safe handling of this product should be found in Material Safety Data Sheet (MSDS). To be advised to put on suitable clothing and eyewear for protection purpose. The application area / site must be in good ventilation otherwise advisable to use portable exhaust fan.

**Important Notes:** *SOLID* product are warranty against defective material. Due to different substrate and working condition, no guarantee of an application result or any liability claims. The users are required to have a test ahead on their intent use.

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## TECHNICAL DATA

Density at 28 °C g / ml (mixed)	1.3 ± 0.05 g / ml		
Adhesive Strength	> 1.5 N / mm (Concrete failure)		
Water Permeability	Nil-Karsten test (impermeable)		
Recommended Dry Film Thickness	± 100 µ		
Solids Content by Weight	70%		
Thinner (5%±) (Optional)	<b>SOLIDFLOOR PU THINNER</b>		
Cleaner	<b>SOLIDFLOOR PU CLEANER</b>		
Relative Humidity Apply	Content < 88% RH		
ASTM D 4060 -10 Taber Abraser Wear Index in mg / 1000 revolutions / 1kg	37mg		
BS476 : Part B : 1989 + A1 : 2009 (Fire Propagation Index (I))	< 2.0		
Mixing Ratio by Weight	Part A : Part B		
	Gloss	4 : 1	
	Satin	4 : 1	
	Matt	4.5 : 1	
Pot Life at 30 °C	2 hours		
Shelf Life & Storage (unopened and in good conditions temperature 10 ~ 30 °C)	12 months		
Material Consumption (mixed)	0.13 kg / m <sup>2</sup>		
Recoating Time	5~6 hrs min @ 30°C 48 hrs max @ 30°C		
Curing Time	20 °C	25 °C	32°C
Human Traffic	24hrs	22hrs	20hrs
Light Traffic	36hrs	34hrs	24hrs
Fully chemicals cure	10days	7days	7days

## TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

## QUALITY ASSURANCE

**SOLID** manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

**Disclaimer :** The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.



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