



## PROTECTIVE & MARINE COATINGS

# Acrydur PR03

## PRODUCT TECHNICAL DATA

### PRODUCT DESCRIPTION

Acrydur PR03 is a solvent free, medium viscosity Methyl Methacrylate (MMA) rapid curing primer with good adhesion on slightly damp concrete and cementitious screeds prior to the application of Acrydur flooring systems.

### ADVANTAGES

- Moisture tolerance
- Rapid cure
- Excellent penetration
- Easy to apply
- Seals pores and capillaries
- Excellent bond to substrate

### RECOMMENDED USE

- As a primer for Acrydur flooring systems which provides excellent adhesion to subsequent coats

### PRODUCT DATA

<b>Colours:</b>	Clear	<b>Application at 20°C</b>
<b>Finish:</b>	N/A	Hardening times: 20-30 minutes or once surface has lost tackiness
<b>Flash Point:</b>	+ 10°C	<b>Pot Life:</b> Around 12-14 minutes from mixing
<b>Cleanser/Thinner:</b>	N/A	<i>The amount of material to be prepared for application should be calculated. Do not prepare more material than what can be applied correctly within the pot life.</i>
<b>Pack Size:</b>	25 kg, 190 kg	<i>All mixed products must be used within the pot life time limit, if the product is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.</i>
<b>Mixing Ratio:</b>	The base requires 2-6% hardening powder depending on site conditions. (see table in section 'MIXING')	<b>Coverage Rate:</b> Typically 0.3-0.5 kg/m <sup>2</sup> (Theoretical)
<b>Density:</b>	Approximately 1.02 g/cm <sup>3</sup>	<i>Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.</i>
<b>Shelf Life:</b>	12 months when stored in unopened containers	<b>System Thickness:</b> 0.25 - 0.4 mm (Recommended)
<b>Storage:</b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 20°C	<i>The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.</i>
<b>Recommended Application Methods:</b>	Roller, brush and squeegee	



# Acrydur PR03

## SURFACE PREPARATION

**New Concrete Floors:** New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm<sup>2</sup> is required.

**Existing Concrete Floors:** Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and making sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using **Acrydur RM01** and **Acrydur RM02**.

**Existing Floors (previously coated):** All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with the existing floor coating. Where **Acrydur PR03** is applied to concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

### PRIMING / APPLICATION CONDITIONS

**Acrydur PR03** is for priming substrates prior to the application of **Acrydur** flooring systems. Porous substrates may require double priming.

**Acrydur PR03** is supplied in pails or drums. Before mixing ideally precondition **Acrydur** resin and the **Peroxide** as well as the fillers and quartz components to a temperature of approximately 15°C to 20°C.

The application temperature should be 0°C to 30°C throughout the application and the curing period.

### MIXING

Prior to use, stir the **Acrydur** to obtain an even distribution of the paraffin contained in the product. With pourable mixes, the **Peroxide** is the last component to be added in the mix. For mortars, add the **Peroxide** prior to adding the aggregate. Pour the appropriate ratio of hardening powder into the container of resin (see table below). Mix until the **Peroxide** is completely dissolved.

#### Hardener addition % guidance

Temperature	Hardening powder	Pot life / minutes	Hardening time
0 °C	6%	15	50
+ 10 °C	4%	16	45
+ 20 °C	3%	8	20
+ 30 °C	2%	7	18

NB: The quantity of hardening powder is always related to the amount of resin

Hardening powder must not be added to the reactive resin and resin/filler mix until immediately before application. The hardening powder must always be stirred in and allowed to dissolve in the pure resin. The stirring time will depend on the type and the condition of the mixing equipment used and on the temperature of the material.

### APPLICATION

**Acrydur PR03** should be applied evenly by roller, brush and squeegee avoiding any puddles. If a squeegee is used, the surface must always be rolled with a paint roller afterwards. Matt and heavily absorbent patches should be reprimed as required wet on wet before hardening ensuring any pores are closed up.

See Sherwin-Williams Acrydur System Sheets for recommended floor systems.

### TECHNICAL INFORMATION

The following figures are obtained from laboratory tests and our experience with this product.

<b>Category Guide:</b>	FerFA Category 1
<b>Bond Strength:</b>	>1.5 MPa (Substrate failure)

WARRANTY	DISCLAIMER
<p>Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.</p> <p>The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.</p>	<p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.</p>
HEALTH AND SAFETY	
Consult Product Health and Safety Datasheet for information on safe storage, handling and application of this product.	

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