



**PROTECTIVE  
&  
MARINE  
COATINGS**

**Acrydur TC03  
PRODUCT TECHNICAL DATA**

**PRODUCT DESCRIPTION**

Acrydur TC03 is a solvent free, low viscosity, Methyl Methacrylate (MMA) clear resin top coat for Acrydur flooring systems typically installed in wet areas. As a clear coat the product is ideal for top coating decorative coloured flakes and coloured quartz surfaces or it can be pigmented for use as a coloured top coat.

**ADVANTAGES**

- Rapid cure
- Low viscosity
- Very hard wearing
- Easy to apply
- Good UV stability

**RECOMMENDED USE**

- As a clear top coat for Acrydur flooring systems, including coloured flake and quartz, in wet areas

**PRODUCT DATA**

<b>Colours:</b>	Clear (Can be pigmented)	<b>Application at 20°C</b>
<b>Finish:</b>	Gloss	Hardening times: 30 minutes or once surface has lost tackiness
<b>Flash Point:</b>	+ 10°C	<b>Pot Life:</b> Around 12 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. 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>Pack Size:</b>	25 kg, 190 kg	<b>Coverage Rate:</b> Typically 0.4-0.5 kg/m <sup>2</sup> (Theoretical) <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>Mixing Ratio:</b>	The base requires 1-3% hardening powder depending on site conditions. (see table in section 'MIXING')	<b>System Thickness:</b> 0.3 - 0.45 mm (Recommended) <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>Mixed Density:</b>	Approximately 0.98 g/cm <sup>3</sup>	
<b>Shelf Life:</b>	12 months when stored in unopened containers	
<b>Storage:</b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 20°C	
<b>Recommended Application Methods:</b>	Roller, brush and squeegee	
<b>Application Temperature:</b>	-10°C - +35°C	



# Acrydur TC03

## 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 TC03** 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

Substrates should be primed prior to the application of **Acrydur TC03**. **Acrydur PR01, PR02 & PR03** are for priming substrates prior to the application of **Acrydur** flooring systems. Refer to product datasheets for different substrates. Porous substrates may require double priming.

**Acrydur TC03** 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 -10°C to 35°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
+ 5 °C	3%	20	45
+ 10 °C	3%	18	40
+ 20 °C	2%	12	30
+ 30 °C	1%	8	20

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.

For pigmentation usually 10% of **Acrydur Pigment Powder** is added. This should be dispersed first with the same quantity of resin and once an even homogenous mix is achieved the remaining resin can be added prior to adding the **Peroxide** hardening powder.

### APPLICATION

**Acrydur TC03** 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.

The application of the system requires consistent and even technique to ensure the prevention of any ponding and a consistent surface finish.

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 2/3
<b>Shore D:</b> (DIN 53 505)	75 Units
<b>Bond Strength:</b> (BS EN 13892-8:2002)	>1.5 MPa (Substrate failure)
<b>Water absorption, 4 days:</b> (DIN 53 495)	125 mg (50 · 50 · 4 mm)
<b>Water Vapour Transmission:</b> (DIN 53 122)	1.05x10 <sup>11</sup> g/cm.h.Pa

**WARRANTY**

*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.*

*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.*

**DISCLAIMER**

*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.*

**HEALTH AND SAFETY**

*Consult Product Health and Safety Datasheet for information on safe storage, handling and application of this product.*

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*This datasheet is specifically subject to the disclaimer which can be found at: <http://protectiveemea.sherwin-williams.com/Home/Disclaimer>*