



ACRYDUR™ ME01

03/2023 Issue 4 – REF: AME01

PRODUCT DESCRIPTION

Acrydur™ ME01 is a medium viscosity, poly methyl methacrylate (PMMA) based highly-flexible waterproofing membrane for Acrydur™ flooring systems. As a sublayer, Acrydur™ ME01 can be used as an elastomeric coating on projects such as car parking decks, flat roofs and balconies to reduce the risk of cracking in flooring systems.

ADVANTAGES

- Easy to apply
- Elastomeric
- Excellent adhesion
- Fast curing

RECOMMENDED USE

A wide range of industrial and commercial applications such as:

- As a flexible membrane for Acrydur™ flooring systems
- As a coating in cold stores or for external applications

PRODUCT DATA

Colours: Grey

Finish: N/A

Flash Point: + 10°C

Cleanser/Thinner: Do not thin.
Use Acrydur™ CL for tool cleaning.

Pack Size: 20 kg

Mixing Ratio: The base requires the addition of 1 to 6% benzoyl peroxide BPO50 depending on site conditions 'SEE MIXING AND APPLICATION'

Density: ~1.13g/cm³

Shelf Life: 6 months when stored in unopened containers.

Storage: Keep out of direct sunlight.
Store in a dry place, between 15°C to 20°C.

Recommended Application Methods: Roller, squeegee or trowel

Typical Properties at 20°C:

Cure times:

Minimum recoating interval:
60 minutes or once surface has lost tackiness.

Pot Life: Approx. 15 minutes from mixing.

The amount of material prepared for application should be carefully calculated based on how much can be applied within the pot life. Any excess mixed material left in the mixing container and not used may release hazardous fumes due to an exothermic reaction.

Typical Consumption : 1.3kg/m² per mm thickness

System Thickness: 2 mm - 2.5 mm nominal

The layer thickness can be adjusted by the addition of fine fillers or quartz.

SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm², a minimum tensile strength of 1.5 N/mm² and a relative humidity at the surface of no more than 75%.

It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment. Grinding or light contained shot-blasting to CSP 1-3, for detailed information, refer to ICRI Guideline No.310.2R-2013, should be used for the thinner synthetic flooring types to ensure that the profile does not reflect in the finish.

After surface preparation, all loose debris and dirt should be removed using vacuum equipment.

Weak concrete must be removed, and local repairs carried out.



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APPLICATION CONDITIONS

Acrydur™ ME01 is supplied in pails. Before mixing ideally precondition both Acrydur™ resin and Peroxide components to a temperature of approximately 15 to 20°C.

The application temperature should be 0°C to 30°C throughout the application and the curing period. For application temperatures from -10°C to 0°C, the use of Acrydur™ AC01 is required. Relative humidity should be below 85% during application and curing. The climate above the uncured floor should be maintained at least 3°C above the dew point to prevent condensation.

RECOMMENDED SYSTEMS

Substrates should be primed prior to the application of Acrydur™ ME01 using Acrydur™ PR01, PR02 or PR03. Refer to the individual product data sheets for specific information. Porous substrates may require double priming. Immediately after application, the primer may be lightly scattered with silica sand (approximately 0.7 to 1.2 mm in size) at an approximate rate of 0.3 kg/m².

MIXING AND APPLICATION

Prior to use, stir the Acrydur™ ME01 to obtain an even distribution of the paraffin contained in the product. With pourable mixes, the BPO is the last component to be added in the mix. For mortars, add the BPO prior to adding the aggregate. Pour the appropriate ratio of BPO into the container of resin (see table below) and mix until completely dissolved.

BPO dosage guide

Temperature	BPO quantity (% w/w)	Pot life (mins)	Hardening time (mins)
0°C	6	20	80
+10°C	4	15	60
+20°C	2	15	60
+30°C	1	8	40

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

TECHNICAL INFORMATION

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

Category Guide: FeRFA Type 2/3

Bond Strength: >1.5 MPa (Substrate failure)
(BS EN 13892-8:2002)

Water penetration: Impervious

Elongation at 23°C: 180%

Abrasion Resistance: AR1 (less than 100 µm wear)
(BS EN 13892-4:2002)

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 Safety Datasheet for information on safe storage and handling of this product.

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