



**PROTECTIVE  
&  
MARINE  
COATINGS**

# Cemcrete SM

## PRODUCT TECHNICAL DATA

### PRODUCT DESCRIPTION

Cemcrete SM is a water based, polymer modified cementitious coating designed to be laid over a wide range of floor and wall surfaces to provide a smooth, durable finish strongly bonded to the substrate with a degree of flexibility to enable the accommodation of movement in the structure of the building. Cemcrete SM can be applied in exterior or interior situations.

### ADVANTAGES

- Can be built up to a range of thicknesses
- Elastomeric allowing for structural movement
- Superb adhesion
- Can be used internal and externally
- Can be used as a floor and wall coating
- Ease of application

### RECOMMENDED USE

- Exterior floor finishes such as driveways, walkways
- Interior or exterior textured finish
- Internal and external car parks
- Public concourse areas
- Ship decks
- Can be used on a wide range of substrates

### PRODUCT DATA

<b>Volume Solids:</b>	~62% ±2%	<b>Application at 20°C</b>
<b>VOC:</b>	<5 g/l calculated per full mixed unit	Recoating Intervals: 4-6 hours with good drying conditions
<b>Colours:</b>	White or Grey	Light Traffic: 12 - 16 hours
<b>Finish:</b>	Textured Matt	Full Traffic: 72 hours
<b>Flash Point:</b>	N/A	Full Chemical Cure 7 - 10 days
<b>Cleanser/Thinner:</b>	N/A	<b>Pot Life:</b> Up to 60 minutes from mixing
<b>Pack Size:</b>	17.2 kg Kit	<i>*Water based coatings may stay liquid for longer than specified pot life but it is recommended to use all mixed paint within the pot life time frame. Application after pot life may affect the cure properties such as gloss and adhesion.</i>
<b>Pack Weights:</b>	4.7kg liquid/12.5 kg aggregate (17.2 kg)	<b>Coverage Rate:</b> 17.2 kg will cover 9 m <sup>2</sup> @ 1000 µm WFT (Theoretical)
<b>Mixing Ratio:</b>	Approximately 2.6 parts aggregate to 1 part liquid	<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>Mixed Density:</b>	Approximately 1.89 g/cm <sup>3</sup>	<b>System Thickness:</b> 500 - 1000 µm WFT (Recommended) 310 - 620 µm DFT
<b>Shelf Life:</b>	12 months (kit) in unopened containers	<i>*The suggested thickness range is calculated based on the average volume solids as a general recommendation. As a result it may vary slightly for each application.</i>
<b>Storage:</b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C	
<b>Recommended Application Methods:</b>	Brush, roller, trowel, pin rake or squeegee	



# Cemcrete SM

## 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 **Resufloor Patch**. 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.

**External Surfaces:** Where evidence of organic growth, lichen, moss etc. is apparent, surfaces must be thoroughly cleaned and should be treated with a long term fungicidal/biocidal treatment which should be allowed to react and then washed down. Careful attention should be given to areas in both horizontal and vertical surfaces such as cracks and joints where water penetration is possible.

**NOTE:** Care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

PRIMING	APPLICATION CONDITIONS																				
<p>Absorbent porous surfaces such as brickwork, asbestos, woodwork and crumbling friable concrete should first be primed with a solution of <b>Cemcrete Primer</b>. This should be evenly applied, worked into the surface and allowed to dry. Sound dense concretes should be dampened (with no free water) with a water spray.</p>	<p><b>Cemcrete SM</b> should be applied where there are good drying conditions and the ambient temperatures of the area and substrate should not be allowed to fall below 5°C throughout the application and the curing period.</p>																				
MIXING AND APPLICATION	TECHNICAL INFORMATION																				
<p>Pour the liquid component into the supplied mixing bucket. Whilst mixing add the aggregate component slowly and mix for a further 2-3 minutes using a high-speed drill and paddle to ensure the mixture is lump free and consistent. The mixed material should be applied immediately and consistently using the relevant application method.</p> <p><b>Cemcrete SM</b> can be applied by a variety of techniques including trowel, pin rake, brush, squeegee etc. Each of these techniques will leave unique tool marks in the cured finish and these should be taken into consideration prior to application.</p> <p>Each coat should be evenly applied and allowed to dry before the next is applied. Where specific finishes are required it is recommended that trials are undertaken to ensure that the techniques are understood and able to be used on the surface available.</p> <p><b>Cemcrete SM</b> can be overcoated with <b>Resupen WB</b> or <b>Elladur CMC</b> to create a sealed coloured finish which enhances ease of cleaning.</p> <p>See Sherwin-Williams System Sheet Cemcrete Topcoat for recommended floor systems.</p>	<p>The following figures are obtained from laboratory tests and our experience with this product.</p> <table border="0"> <tr> <td><b>Category Guide:</b></td> <td>FerFA Category 3</td> </tr> <tr> <td><b>Temperature Resistance:</b></td> <td>Tolerant of temperatures up to 60°C</td> </tr> <tr> <td><b>Compressive Strength:</b> (BS EN ISO 604:2003)</td> <td>28.7 MPa</td> </tr> <tr> <td><b>Flexural Strength:</b> (ISO 178:2010)</td> <td>3.3 MPa</td> </tr> <tr> <td><b>Tensile Strength:</b> (BS EN ISO 527-2:2012)</td> <td>1 MPa</td> </tr> <tr> <td><b>Abrasion Resistance:</b> (BS EN 13892-4:2002)</td> <td>AR 1 (Less than 100 microns wear)</td> </tr> <tr> <td><b>Bond Strength:</b> (BS EN 13892-8:2002)</td> <td>2.0 N/mm<sup>2</sup></td> </tr> <tr> <td><b>Reaction to Fire:</b> (BS EN 13501-1:2018)</td> <td>Bfl-s1</td> </tr> <tr> <td><b>Impact Resistance:</b> (BS EN ISO 6272-1:2011)</td> <td>&gt;4 Nm</td> </tr> <tr> <td><b>Water Vapour Permeability:</b> (ISO 7783:2018)</td> <td>s<sub>d</sub> &lt;5m (Permeable to water vapour)</td> </tr> </table>	<b>Category Guide:</b>	FerFA Category 3	<b>Temperature Resistance:</b>	Tolerant of temperatures up to 60°C	<b>Compressive Strength:</b> (BS EN ISO 604:2003)	28.7 MPa	<b>Flexural Strength:</b> (ISO 178:2010)	3.3 MPa	<b>Tensile Strength:</b> (BS EN ISO 527-2:2012)	1 MPa	<b>Abrasion Resistance:</b> (BS EN 13892-4:2002)	AR 1 (Less than 100 microns wear)	<b>Bond Strength:</b> (BS EN 13892-8:2002)	2.0 N/mm <sup>2</sup>	<b>Reaction to Fire:</b> (BS EN 13501-1:2018)	Bfl-s1	<b>Impact Resistance:</b> (BS EN ISO 6272-1:2011)	>4 Nm	<b>Water Vapour Permeability:</b> (ISO 7783:2018)	s <sub>d</sub> <5m (Permeable to water vapour)
<b>Category Guide:</b>	FerFA Category 3																				
<b>Temperature Resistance:</b>	Tolerant of temperatures up to 60°C																				
<b>Compressive Strength:</b> (BS EN ISO 604:2003)	28.7 MPa																				
<b>Flexural Strength:</b> (ISO 178:2010)	3.3 MPa																				
<b>Tensile Strength:</b> (BS EN ISO 527-2:2012)	1 MPa																				
<b>Abrasion Resistance:</b> (BS EN 13892-4:2002)	AR 1 (Less than 100 microns wear)																				
<b>Bond Strength:</b> (BS EN 13892-8:2002)	2.0 N/mm <sup>2</sup>																				
<b>Reaction to Fire:</b> (BS EN 13501-1:2018)	Bfl-s1																				
<b>Impact Resistance:</b> (BS EN ISO 6272-1:2011)	>4 Nm																				
<b>Water Vapour Permeability:</b> (ISO 7783:2018)	s <sub>d</sub> <5m (Permeable to water vapour)																				

**CE MARK**

Sherwin-Williams Protective & Marine  
 Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom  
 Tel: +44 (0) 1204 521771 F: +44 (0) 1204 38211516

**BSEN 13813 SR B 2.0 - AR 1 - IR>4**  
 Resin coating/screed for use inside buildings as per data sheet  
 Wear resistance: AR 1  
 Bond strength: B 2.0  
 Impact resistance: IR > 4

**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.*

Sherwin-Williams Protective & Marine Coatings, Tower Works, Kestor Street, Bolton, Lancashire BL2 2AL United Kingdom

T: 01204 521 771 E: [sales.uk@sherwin.com](mailto:sales.uk@sherwin.com) [www.resinflooring.sherwin.eu](http://www.resinflooring.sherwin.eu)

Registered in England 1659941 VAT GB 373 485624

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