METASET® SMOOTHING PRIMER

Levelling and Smoothing Primer

Product Description

METASET® Smoothing Primer is a two-component slurry screed based on GCP Applied Technologies' unique ESSELAC® advanced resin technology and extensive experience in developing high performance slurry screed primers.

Product Uses

METASET® Smoothing Primer is designed to provide a smooth surface on which to apply GCP's range of membranes and coatings. It fills voids, blowholes and other minor imperfections on irregular concrete and asphalt surfaces. At the same time it acts as a primer, sealing the substrate and improving the adhesion of subsequent materials. It is generally used where an aesthetic finish is required, as an economical alternative to increasing the thickness of the subsequent coating to minimise imperfections in the substrate.

Technical Data

PROPERTY	VALUE
Application Temperature Range[1]	0 °C to 30 °C
Typical Working Life[2]	
30 °C Summer Grade	6 minutes
20 °C Summer Grade	8 minutes
10 °C Summer Grade	11 minutes
10 °C Winter Grade with additional catalyst	9 minutes
5 °C Winter Grade with additional catalyst	17 minutes
0 °C Winter Grade with additional catalyst	25 minutes
Typical Cure Time[2]	
30 °C Summer Grade	15 minutes
20 °C Summer Grade	22 minutes
10 °C Summer Grade	30 minutes
10 °C Winter Grade with additional catalyst	20 minutes
5 °C Winter Grade with additional catalyst	30 minutes
0 °C Winter Grade with additional catalyst	50 minutes

Tensile Bond Strength to Concrete (BE EN ISO 4624:2003)	>1.0MPa

Surface Preparation

All surface coating systems are dependent on the quality of surface preparation. Asphalt substrates must be thoroughly dried and free from all oils and other surface contaminants. All concrete decks must be prepared by suitable mechanical means[3] such as vacuum blasting to provide a sound surface. All laitance should be removed so that the aggregate in the deck is visible. Oil and grease can be removed by scouring using a water-soluble de-greaser.

[1] For temperatures outside this application range please contact Technical Services Department.
[2] Working Life and Cure Times are based on the material, substrate and ambient temperatures being at the stated level with the exception of the 30°C condition where storage requirements demand the material temperature does not exceed 25°C.
[3] Depending upon the application water jetting may not be a suitable method of mechanical preparation. Please contact Technical Services to discuss first.

If acid etching is used, care should be taken to ensure that the resulting residues are completely removed.

New concrete decks should be a minimum of fourteen days old. All substrates must be clean, dry and structurally sound. All preparation must ensure the complete removal of all substances that are detrimental to the bond such as laitance, dust, dirt, oils, fat, waxes and chemical contaminants.

For substrates other than asphalt or concrete or where additives, cement replacement or curing compounds have been used please contact our Technical Services Department.

Application

Ensure the job is prepared before starting the mixing operation. A steel or plastic bucket is an ideal mixing vessel. Ensure that the vessel is clean and large enough (min 20ltr) to contain the pack size being mixed. Do not split the kits.

METASET® Smoothing Primer is supplied in pre-weighed quantities ready for on-site mixing. It consists of a neutral resin base supplied in a jerrican and a bag of fillers that contain the BPO catalyst. It is supplied in both Winter and Summer grades; the Winter grade is supplied with a separate sachet of additional BPO catalyst to add to the mix to increase the speed of cure at temperatures below 10°C.

Mix the resin thoroughly before use. This is done by shaking the jerrican vigorously for a minute before emptying the contents into the mixing vessel. Using a mechanical mixer, such as an air-driven drill (400-800 rpm) or intrinsically safe electrical drill with mixing paddle, start to stir the resin. Whilst stirring continuously, the bag of fillers is added in, and, if using Winter Grade, the additional bag of catalyst is added at the same time. The materials must be mixed thoroughly until all the fillers are wetted out.

Adding the filler initiates the 'working life' of the material, during which time it must be applied. Refer to the table for further information on working life and cure times.

Pour the material out onto the substrate and spread out using a flat edged rubber squeegee. Towards the end of the 'working life' polymerisation starts, the viscosity increases i.e. it becomes stiffer, the temperature rises and the material starts to gel. Do not try to place or work the material at this stage.

Once the METASET® Smoothing Primer has been applied, trafficking should be avoided to prevent unnecessary contamination. The primer should be dry to the touch before the next application stage starts.

It is essential that good fresh air circulation and ventilation be provided in enclosed spaces during application to allow full cure. If there is limited air movement the surface of the primer will remain tacky.

Limitations

On rough or very porous concrete surfaces, an application of PAR1 primer or PA1 primer prior to applying the METASET®Smoothing Primer may be required to fully seal the surface.

Coverage

METASET® Smoothing Primer (typical): 2kg/m^2/mm

The required coverage rate will vary with surface texture and porosity.

Cleaning

All tools and equipment should be cleaned with acetone before the material is allowed to cure.

Packaging & Storage

METASET® Smoothing Primer is supplied in a 22kg kit consisting of 4.6kg of resin and 17.4kg of fillers. Between October and March a 120 gram bag of BPO powder catalyst is also supplied in the UK for addition at temperatures below 10°C.

All components of the system should be stored in cool, dry, protected conditions, out of direct sunlight and in accordance with the relevant site Health & Safety regulations. Storage temperature must not exceed 25°C. Do not store near naked flames or foodstuffs.

Stored in unopened containers, under the correct conditions, the components have a minimum shelf life of six months. If your product is more than six months old you must contact GCP before use.

Health & Safety

Please refer to our safety datasheets for further information.

General Information

METASET® Smoothing Primer is part of a wide range of specialist waterproofing, surfacing and repair materials manufactured and supplied by GCP. If you require any further information on this or any other of our products, please contact our Customer Services Department or visit www.gcpat.com.

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