



# SOLIDGARD EM

A Three Component Epoxy Mortar Screed



## BENEFITS

- > Solvent free, low odor.
- > Seamless and hygienic finish when sealed.
- > Low maintenance.
- > High impact resistance.
- > Heavy duty for traffic.
- > Excellent chemical resistant.

## DESCRIPTION

**SOLIDGARD EM** is a solvent free underlayment AOS moisture barrier; three components epoxy resin filled with filler silica sand mixture apply 3 ~ 10 mm thick. Epoxy mortar screeds are not color stable if exposed to UV light or under influence of weathering. We recommended applying color stable coating.

## USES

Areas for use in industrial floor, warehouse, chemical plants, manufacturing areas and car parks. To provide where the subjected to heavy traffic, impact and chemical areas.

## TECHNICAL DATA

Density 28 °C g / ml (mixed)	2.2 ± 0.1 g / cm <sup>2</sup>	
Tensile Strength	22 N / mm <sup>2</sup>	
Compressive Strength (28 days)	70 N / mm <sup>2</sup>	
Adhesive Strength	> 2.0 MPa (Concrete failure)	
Flexural Strength	30 MPa	
Impact Resistance (BRE Screed Tester)	0.3mm	
Mixing Ratio by Weight	Part A : Part B : Part C 4 : 1 : 45	
Pot Life (28 °C) (Open time for working with spike roller)	45 min	
Packing Size	50 kg / set	
Shelf Life & Storage (Unopened and in good condition temperature 5 ~ 30 °C)	12 months	
Material Consumption	2.2 kg / mm / m <sup>2</sup>	
Curing Time	20°C	30°C
Light traffic	24 hours	16 hours
Light traffic	72 hours	48 hours
Fully cured	10 days	7 days



## PACKING & COVERAGE

**SOLIDGARD EM** comes in 50 kg set (Part A, B, C) in metal pail, which is normally applied at the rate of 2.0 kg / m<sup>2</sup> @ 1 mm thickness. The coverage depends on the substrate's porosity.

## HOW TO USE

### Surface Preparation :

- > Substrate concrete or screed should be a minimum of compressive strength 25 N / mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5 N / mm<sup>2</sup> (concrete failure).
- > Concrete substrate must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve and open textured surface.
- > Cracks and hollows should be properly remedied.
- > Rough contaminations and high spots can be removed by grinding.
- > The substrate should be clean and free from laitance, oil, dust, paint residues, algae, loose and friable material must be completely removed from all surfaces before application of the product.

**Mixing :** Pour total Part B into Part A container and mix both liquid part thoroughly for one minute by using suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved, transfer Part A and Part B (mixed) to a forced action mixer and mix with aggregate until uniform.

**Application :**

- > Apply **SOLID SF PRIME** can be use by suitable roller as a primer for sealing well the substrate porosity.
- > Usually within 8 ~14 hours, **SOLID EP PRIME** cured, then only allow to do another coat of **SOLID EP PRIME**.
- > Apply the mixed **SOLIDGARD EM** within one hour of priming, (i.e. while the priming coat is still tacky), and spread the screed onto the primer floor with screed box as per requirement thickness, compact and finish using a steel blade trowel or power float.

**Sealing :** Can apply one or two coat of **SOLIDGARD SC** compound to do the scratch coat to seal the porous surface.

**Cleaning of Tools :** Clean all the tools and application equipment with **SOLID THINNER** before the product hardens.

## TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

## QUALITY ASSURANCE

**SOLID** manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

**Disclaimer :** The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.



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