

CEMFLO MBS

EPOXY BASED MODIFIED CEMENT WATER BARRIER / UNDERLAYMENT

CEMKRETE®

ISO 9001 & 14000 CERTIFIED

DESCRIPTION

CEMFLO MBS is a 3 component, water-based epoxy cement screed with specially selected high crushing strength, chemical inert aggregates. **CEMFLO MBS** does not require primer and is compatible for over-coating with a wide range of **CEMKRETE** epoxy coating systems.

USES

CEMFLO MBS is designed to use as vapor barrier layer for epoxy and polyurethane coating. Ideally suited for wet and dry areas such as engineering plants, oil refineries, paint workshops, dairies, foods industries, breweries etc., that are continuously exposed to washing. The product also can be used as an underlayment for vinyl tiles laying.

BENEFITS

- Water-based
- User-friendly
- Moisture tolerant
- Effective vapor barrier layer
- Excellent adhesion and high compressive strength

COLORS

Amber Grey



Technical Data :			
No. of Components	3		
No. of Coats Recommended	1 or 2		
Recommended Dry Film Thickness	2-3mm		
Mixing Ratio (By Weight)	A : B : C : water = 3.0 : 1.75 : 20.6 : 5.0 to 6.0 kg by weight		
Pot Life	20-30 min at 30°C		
Curing Time	Over Coating - 24-48 hours depending on room temperature and relative humidity Full Cure - 7 days depending on room temperature and relative humidity		
Estimated Coverage	2kg/m ² /mm		
Bond Strength	1 day: 2.0N/mm ²	3 days: 2.5N/mm ²	7 days : 2.8N/mm ²
Compressive Strength	1 day: 25.0N/mm ²	3 days: 40.0N/mm ²	7 days: 48.0N/mm ²
Tensile Strength	3 days: 6.0N/mm ²		7 days: 10.0N/mm ²
Light Traffic	24 hours @ 10°C		16 hours @ 20°C
Storage & Shelf life	Unopened in dry conditions at 25°C / 12 months		
Cleaner	Water		
Packaging	25.35kg/set		

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

WEBSITE
www.cemkrete.com.my

TELEPHONE
+603-8062 4478

FAX
+603-8061 5877

EMAIL
enquiry@cemkrete.com.my



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SUBSTRATE CONDITION

SUBSTRATE REQUIREMENT

Floor to receive **CEMFLO MBS** should be preferably Grade 20 concrete or above and preferably waterproofed that when measured with moisture meter, its reading should not exceed 5%. Cracks, joints if there is must be treated accordingly by normal concrete repair procedures.

SURFACE PREPARATION

Laitance and other foreign materials are to be removed by grinding, grit blasting or scarification depending on the profile and depth of removal required. All residues must be removed to provide a dry, dust free open textured surface and porous substrates (high air cavities) may need to be primed to consolidate its surface before applying **CEMFLO MBS**.

MIXING

It is important that **CEMFLO MBS** is mixed correctly. A suitable forced action mixer such as a paddle fitted to a heavy duty, slow speed electric hand drill or screed mixer is recommended for mixing. Base and hardener are poured into a container and mixed thoroughly until homogeneous for 30 seconds.

Add clean water 5.0 to 6.0 liters to mixed resin then stir thoroughly until milky white, then slowly add the Part C aggregate to the mixture.

Continue mixing for further 2-3 minutes until all the component are thoroughly blended. Care must be taken to avoid air incorporation into the mixture. Once mixed, the materials must be used within the specified pot life period, after this time, unused materials will have stiffened and should be discarded.

THINNING

On normal substrate, **CEMFLO MBS** must be thinned with 20 - 25% of clean portable water on total weight after Part A and B are thoroughly mixed.

Make sure water is added only after mixing Part A and Part B and continue mixing product until homogenous before application.

APPLICATION

The mixed material is poured onto the prepared substrate and spread to the required thickness with a steel trowel; alternatively, a serrated trowel can be used. The resin floor should not be overworked but spread slowly and evenly. Immediately after spreading, the floor should be firmly rolled with a spike roller to help release any entrapped air in the material and level any slight trowel marks. The floor should now self-smoothen to an even colored, dense, impervious floor. **CEMFLO MBS** shall not be applied to the existing expansion joints on the substrate.

Over-Coating

The surface of **CEMFLO MBS** may be top coated with **CEMKRETE** flooring systems. For this, **CEMFLO MBS** must be at least 3 days old and high spots such as cold joints and trowel marks rubbed down. However, at the temperature below 30°C and at RH above 60%, there is a possibility of delay in the setting of **CEMFLO MBS**. In such circumstance, the over coating should be done only after 7 days. All tools and equipment should be cleaned immediately after use with water or cleaning thinner.

TEMPERATURE

CEMFLO MBS should not be applied to the substrate with temperature <10°C and >30°C.

HEALTH & SAFETY

Although **CEMFLO MBS** is a water-based product, some of the components may be hazardous during mixing and application. Always use with suitable protective gears and adequate ventilation. Please read the relevant Health & Safety Data Sheet, available on request.

FURTHER INFORMATION

CEMKRETE SDN BHD is the leading manufacturer of Polymer Flooring System and we have many years of hands on experiences not limited to car park only. Our core business besides flooring, we are also known supplier of protective coatings, waterproofing, concrete repair products, cementitious / Epoxy / PU grouts, fireproofing, tank lining and surface preparation equipment. For a complete technical solution, make **CEMKRETE** your partner today. Contact our hotline now.

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