

**DESCRIPTION**

**CEMBOND** is a non-shrink surface conditioner consisting of portland cement and a specific cationic latex. It is used as a surface conditioner or skim coat to smoothen surfaces, especially to cover up old mosaic or unglazed ceramic tiles, as such would immediately be able to make good use of uneven surfaces.

**USES**

**CEMBOND** is formulated to waterproof, fill and seal pores / voids & pointing of all tiles, and masonry surface. It is also designed to cover up old mosaic or unglazed ceramic tiles pointing to before any further finishing.

**BENEFITS**

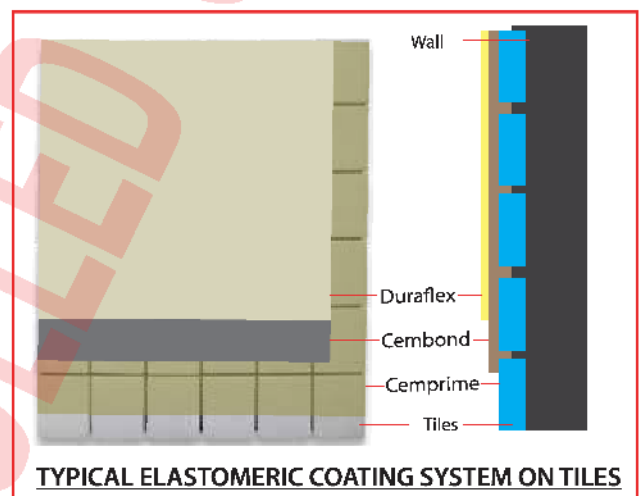
- Direct application.
- Non-toxic - approved for potable water tank.
- Excellent adhesion on porous or non-porous surfaces.
- Flexible - crack bridging.
- Resistant to carbon dioxide and chloride ion diffusion.
- Resistant to weather and mild chemicals.

**COLOR**

Grey

**FINISH**

Matt

**TYPICAL ELASTOMERIC COATING SYSTEM ON TILES**

<b>Technical Data :</b>	
No. of components	2
No. of Coats Recommended	1 or 2
Recommended Dry Film Thickness	0.5mm - 1.5mm
Estimated Coverage	2kg/m <sup>2</sup> @ 1 mm thick
Mixing Ratio	1 : 3 by weight of Part A + B
Mixed Density	1.8kg/ltr
Compressive Strength	39 N/mm <sup>2</sup>
Flexural Strength	11.0 N/mm <sup>2</sup>
Adhesion to Concrete	3.5 N/mm <sup>2</sup>
Toxicity	Non-Toxic
Pot Life	80 min 20°C    30 min @ 35°C
Storage & Shelf Life at 25°C	unopened packs Above 12 months
Packaging	20kg

**NOTE:** Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

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.

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**SPECIFICATION**

Substrate to be coated must be sound, clean and free from any contamination. For floor, mechanical diamond grinding should be employed followed by through vacuuming. For wall, use high pressure water jet to clean prior to applying the product. Apply the product in strict accordance with manufacturer's written instruction

**APPLICATION PROCEDURE****SURFACE PREPARATION**

All surfaces to receive CEMBOND must be free from oil, grease, wax, dirt, curing compound or any foreign matter which may impair bonding. Spalled or badly disintegrated surfaces must be removed and repaired prior to applying CEMBOND.

**MIXING**

Gradually blend in the powder component with the liquid component and mix well for 2-4 minutes. Avoid lump formation and do not mix more material than can be used within pot life.

**THINNING**

For better workability during high room temperature, the product can be thinned with not more than 5% of clean portable water.

**TYPICAL MECHANICAL PROPERTIES**

Properties	Standard	Unit	Cembond
Tensile Strength	ASTMD-638	Mpa	0.71
Compressive Strength	ASTM C-190	N/mm <sup>2</sup>	39.0
Flexural Strength	ASTM-348	N/mm <sup>2</sup>	11.0
Bond Strength	ASTM C-321	N/mm <sup>2</sup>	3.5
Shear Bond Strength	ASTM C-109	N/mm <sup>2</sup>	5.5
Abrasion Resistance	ASTM C-241	% weight loss	1.1
Impact Resistance	ASTM D-2794	Inch Pound	157
Water Vapour Transmission rate 1/4" thick	ASTM D-1615	G/24h.m <sup>2</sup>	224.532
Water Absorption	ASTM E-96	Perms	3.7
Freeze/ Thaw Resistance	ASTM C-140	% absorption	2.0%
Adhesion Strength	ASTM C-291	Cycle Passed	60.0
Adhesion Strength	ASTM D-4541	N/mm <sup>2</sup>	3.37
Chemical Resistance	ASTM D-1308-02EL		Good

**APPLICATION**

CEMBOND can be trowelled vertically or horizontally by using steel plate and trowel to required thickness.

**PRIMER**

On vertical tiles or mosaic wall surfaces, a special primer CEMPRIME maybe required to improve the adhesion properties of CEMBOND. Whereas, use AQUAREX EPH as primer for floor.

**TOP COAT**

CEMBOND can be top coated with most paint finishes. The typical exterior painting system should be CEMKRETE's elastomeric coating i.e. DURAFLEX. Detail information is available upon request.

**PROTECTION**

CEMBOND should not be applied during rain or when rain is expected.

**HEALTH & SAFETY**

Although CEMBOND is non-toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skins or eyes should be washed off with plenty of clean water. In the event or prolonged irritation, seek medical advice. Powder products should be handle to minimize dust formation. Use a light mask if excessive dust is unavoidable.

**FURTHER INFORMATION**

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make CEMKRETE your partner today. Contact our hotline now.

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