

CEMTEC BRUSHCRETE

ACRYLIC REINFORCED CEMENTITIOUS, FLEXIBLE WATERPROOF COATING

DESCRIPTION:

CEMTEC BRUSHCRETE is a two component acrylic modified cementitious coating that requires only on site mixing to form the ideal product to waterproof and resurface concrete, masonry and most other construction materials.

Simply applied by stiff brush, roller, or trowel, it forms a waterproof, flexible coating.

CEMTEC BRUSHCRETE provides an effective barrier to waterborne salts and atmospheric gases. Fluid applied **CEMTEC BRUSHCRETE** provides a hard wearing seamless, waterproof membrane for roofs and foundation protection.

USES

- To reface and even out variations in concrete surfaces.
- As a waterproofing lining for water retaining structures.
- For coating seawater channels.
- Sealing and coating the bar holes to ensure water tightness.
- To provide foundation protection.
- As a waterproof coating for roofs.
- As a backing to marble and granite to alleviate surface staining.
- To provide protection to concrete surfaces from carbonation and chloride attack.
- For use on pedestrian walkways in marine area.

ADVANTAGES:

- A 1mm coating provides anticarbonation cover equivalent to over 80cm of concrete.
- Waterproof-resists up to 7 bars (70 metre head) of pressure.
- Excellent adhesion. Bonds to porous and nonporous surfaces.
- Flexible.
- Non toxic suitable for contact with potable water.
- Suitable for light pedestrian traffic.
- Breathable - whilst repelling water, allows substrate to breathe.
- High resistance to carbon dioxide and chloride ion diffusion.

- Unlike conventional coatings which require a 7- 28 day cure of concrete, **CEMTEC BRUSHCRETE** can be applied to 24 hours old concrete thereby giving immediate protection.

COMPOSITION

CEMTEC BRUSHCRETE is composed of specially selected cements, silica sand and reactive fillers supplied in powder form together with a liquid component of blended acrylic copolymers and wetting agents.

TYPICAL PROPERTIES

Density	: 1800kg/m ³
Toxicity	: Non toxic
Water penetration	: 7 Bars - No Leakage (2mm dft)
% Elongation	: >5% (unbonded)
Adhesion to concrete	: >1.1 N/sq.mm

STANDARDS

BS 1881 Part 5 1983 - I.S.A.T.

BS 6920 Part 1 - Suitable for use in contact with Potable Water.

CHEMICAL RESISTANCE:

CEMTEC BRUSHCRETE has outstanding wear and weather resistance and has good chemical resistance.

CEMTEC BRUSHCRETE is an extremely effective barrier to atmospheric acidic gases which cause carbonation in concrete structures. **CEMTEC BRUSHCRETE** at an applied rate of 2kg/m² give an air diffusion equivalent for carbon dioxide (R) of 357.5 metres. The accepted minimum value for R is 50m.

APPLICATION PROCEDURE

Surface Preparation

As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound

concrete and made good with a suitable cementitious repair mortar such as Repcon S. Conventional concrete curing compounds should be removed before application. Roofing tiles should be firmly bedded and grouted before application.

Mixing

CEMTEC BRUSHCRETE is supplied in premeasured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix using the slow speed drill fitted with a suitable paddle. Mix and use. Do not mix more material than can be used in one hour.

Application

Do not apply to dry concrete. Saturate concrete surfaces with clean water whilst still visibly damp, but free from standing water. Apply, using a short, stiff bristles brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10 mm depressions, honeycomb etc. use less gauging liquid and mix to the desired consistency. Where more than one coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

It is recommended, for general resurfacing, that each coat should be a minimum of 1mm thick.

EFFECT OF WATER PRESSURE

CEMTEC BRUSHCRETE provides a protective waterproof coating. When tested to DIN 1048. **CEMTEC BRUSHCRETE** was shown to resist water pressure up to 7 Bar (70 metre head). The degree of resistance of **CEMTEC BRUSHCRETE** to water under pressure depends on the coating thickness. These application rates are for continuous water pressure environments.

Pressure	Application Rate
3 Bar	4kg /m ²
7 Bar	6kg /m ²

PACKAGING

CEMTEC BRUSHCRETE is packed as 20 kgs kit. (powder - 15 kgs + liquid polymer - 5 kgs).

COVERAGE

1.8 kg/m² at 1mm thickness

STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Shelf life is 12 months in original unopen packing when stored correctly.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.