Cemtec®
The Trusted Brand in
CONSTRUCTION CHEMICALS

CEMTEC BRUSHCRETE

ACRYLIC REINFORCED CEMENTITIOUS FLEXIBLE WATERPROOFING COATING

ISO QSCert 9001 OHSAS QSCert 18001 ISO QSCert 14001

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, wet areas, and foundation protection.

FEATURES & ADVANTAGES

- A 1mm coating provides anti carbonation cover equivalent to over 80cm of concrete.
- Waterproof- resists up to 7 bars (70 metre head) of pressure.
- 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 chlorideion diffusion.
- Unlike conventional coatings which require a 7-28 day cure of concrete, **CEMTEC BRUSHCRETE** can be applied to 24 hour old concrete thereby giving immediate protection.

BASIC USES

- To reface and even out variations in concrete surfaces.
- As a waterproof lining for water retaining structure like tanks and swimming pools.
- 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 prevent water ingress and thus alleviate surface staining.
- To provide protection to concrete surfaces from carbonation and chloride attack.
- For use on pedestrian walkways in marine area.

Directions for use

Surface Preparation

As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust, residual curing compounds, mould release agents or other contaminants 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.

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 6-10mm 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.

Mixing

CEMTEC BRUSHCRETE consists of two components: 3 parts of powder by weight to one part liquid polymer. Mix using clean containers and a slow speed paddle mixer until the material is homogenous. Keep mixed throughout application. Do not add water. Mix only the amount that can be applied before the mixed product looses its workability.

Effect of water pressure

CEMTEC BRUSHCRETE provides a protective waterproof coating. When tested, **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 Rate	Application
3Bar	4kg /m^2
7Bar	6kg /m^2

COVERAGE	1.8 kg /m^2 @ 1mm thickness
PACKAGING	Available in 15kg powder+ 5 kg Liquid.
COLOR	Grey

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COMPOSITION

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

TYPICAL PROPERTIES

Density	1800 kgs/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/m^2 give an air diffusion equivalent for carbon dioxide (R) of 357.5 metres. The accepted minimum value for R is 50m.

HEALTH & SAFETY

- 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.
- Use protective clothing gloves, mask, goggles, etc.
- Smoking should be strictly prohibited during application. In confined areas of application, breathing equipment should be made available for operatives.

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 unopened packing when stored correctly.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quailty Procedures centified to conform with quality Management System described in ISO 9000 series

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

"High Quality Construction Chemicals"
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