



DESCRIPTION

Chemproof CM5000 is a two component; elastomeric polymer modified cementitious waterproof coating suitable for internal and external applications, Which provides a hardwearing, seamless, waterproof membrane for potable water retaining structures, tanks, basements, foundations and culvert. Chemproof CM5000 shows many Advantages such as :

- Non-toxic, approved for use in contact with potable water.
- Elastomeric, can accommodate static and dynamic cracks.
- Fungus and mould resistant.
- Able to withstand high positive and negative water pressures.
- Excellent bond to porous and non-porous surfaces.
- Breathable.
- Durable, excellent protection against carbon dioxide, chloride ions and water.
- Cost effective, quick and easy brush or spray application.
- Suitable for internal and external applications.

RECOMMENDED USE

Chemproof CM5000 is recommended for many applications such as:

- Waterproofing of water retaining structures and reservoirs.
- Waterproofing of basements, roof, and foundations.
- Waterproofing of bathrooms and wet areas.
- Protection of concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.

SURFACE PREPARATION

All surfaces which are to receive the coating, must be free from oil, laitence, grease, wax, dirt or any other form of foreign matter which could affect adhesion. Typically, concrete surfaces can be cleaned using high pressure water jet or grit blasting. Spalled surfaces or those containing large blowholes, cracks and other such defects up to 10 mm depth, should be repaired using mortar.

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable pac should be used. Add the liquid component of Chemguard CM5000 to a clean container. The powder component is then added slowly to the liquid while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

APPLICATION

Pre-dampen the substrate surface with water. High porosity substrates will require more dampening than dense substrates. When the concrete surface is damp, apply the material using a soft bristled brush (120 mm-200 mm wide) or trowel. The first coat should be applied at a minimum wet film thickness of 1mm and should be well brushed into the surface. Finish in one direction for a neat appearance. If the brush begins to drag during application, do not add water to the material, but dampen the surface again. Application may also be made by roller, however it is recommended to finish the surface with a trowel for best results. The first coat should be allowed to cure for a minimum of 5 hours at 20°C or 3 hours at 35°C and longer at lower temperatures. The second coat should also be applied at a minimum wet film thickness of 1 mm and finished in one direction. Pre-dampening of the surface is not necessary when applying the second coat.

TECHNICAL INFORMATION

Color	Grey
Specific gravity	1.85 g/cm ³
Resistance to water Pressure (2 mm coat in): DIN 1048	> 5 bar
VOC:	<11g/Ltr Powder < 22 g/Ltr Liquid
Bond strength (on normal concrete) ASTM D4541	> 2 MPa @ 28 days (concrete failure)

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APPLICATION CONDITIONS

Min. Temperature 5°C

Max. Temperature 35°C

THEORETICAL COVERAGE

The coverage rate is around 0.55 m²/kg coat @ 1 mm thickness.

SHELF LIFE

12 months when stored properly in unopened container in dry conditions at 10 - 25°C.

CLEANUP

Tools and equipment can be cleaned with Potable water Dried Chemproof CM5000 should be removed mechanically.

PACKAGING

Chemproof CM5000 is available in 23kg kit.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Use with adequate ventilation and use a respirator when levels are above applicable limits. Avoid contact with skin and eyes. Close container after each use. Use good hygiene when handling this product .

TECHNICAL SUPPORT

Technical assistance is available from the manufacturers trained field representatives.

UPDATED

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Unichem Product Group

Unichem offers a wide range of industrial coating , fireproofing and constructic chemicals products that are manufactured, which include:

- Intumescent coatings
- Fire retardants
- Industrial floorings.
- Steel and industrial coatings
- Waterproofing.
- Grouts and anchoring
- Concrete repairs.
- Structural protector .

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