SINCE 1934

TECHNOBIT

TECHNOLOGY OF INSULATING MATERIALS

CEMOCOAT



Polymer Modified Cementitious, Durable, Waterproof Coating

THE WISE CHOICE

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Description

CemoCoat is a cement-based, two component, acrylic polymer modified, waterproof coating for concrete, masonry and most other construction materials.
CemoCoat is a semi-flexible, durable, hardwearing and seamless.It provides an effective barrier to waterborne salts and atmospheric gases to prevent carbonation.
CemoCoat Simply applied by stiff brush, roller, trowel or spray.

Advantages

- Non-toxic. Suitable for use in contact with potable water.
- Semi flexible
- Waterproof - Resist up to 1 Bar.
- Breathable - whilst repelling water, allows substrate to breathe.
- Brush, roller, trowel or spray applied.
- High resistance to carbon dioxide and chloride ion diffusion
- Excellent adhesion – bonds to porous and nonporous surfaces
- Compatible with adhesives used for fixing ceramic, mosaic and natural stone coverings.
- Resist occasional foot traffic.

Typical Applications

CemoCoat is suitable for waterproofing concrete and masonry substrates against positive water pressure for internal and external waterproofing. **CemoCoat** is suitable for the following applications :

- Wet areas such as showers, bathrooms, toilets, kitchens and balconies.
- Foundations & retaining walls protection.
- As a protection coat for reinforced concrete elements against carbonation and chloride attack.

Application Details

Surface Prepration :

- Concrete Surfaces must be clean, sound, dust free and un-contaminated.
- It should be sufficiently cured so that any shrinkage has already occurred.
- Mechanically cleaned, Use suitable cleaning method including high pressure water jetting, grit blasting and grinding.
- Wall to floor intersection should be cut 20X20 mm along the junction. It should be filled with sand/cement mortar modified with **CemoBond** and rounded out to 40 mm minimum radius.
- Concrete Surfaces should be leveled and as flat as possible.
- Cracks and blowholes should be filled with **Cemocoat** in trowelable consistency.
- Defected concrete should be filled with suitable repair mortar.
- It is important to stop water ingress prior to the application of **Cemocoat**.
- Wash the substrates with clean water and remove any excess water at the time of application.

Mixing Ratio :

3 : 1 (Powder : Liquid) by weight

Mixing :

- **CemoCoat** is supplied in premeasured units. **CemoCoat** slurry can be obtained by mixing a 15 kg bag of **CemoCoat Powder** with 5 liters of **CemoCoat Liquid**.
- Add the liquid component into clean container, and then add the powder component slowly while mixing.
- Mix using slow speed drill fitted with suitable mixing paddle.
- Mix for 3-5 minutes until a homogeneous consistency is achieved.
- Leave the mixture for 3 minutes. Then re-mix for 2 minutes. Do not over mix.
- Mix material that can be applied within one hour (pot life).
- Partial small amounts may be mixed manually using suitable hand tools.

Application :

First coat

- Saturate concrete surfaces with clean water. Ensure that the substrate to be treated is damp but not wet at the time of application (SSD).
- Apply the first coat of **CemoCoat** uniformly at application rate of 0.75 - 0.9 kg/m^2. using stiff brush onto the prepared substrate.
- Do not spread the material too thin. Brush it well into the surface and finish it in one direction for neat appearance.
- Leave the first coat to dry for 4 - 6 hours minimum before applying the second coat.

Second coat

- Apply the second coat exactly as mentioned above onto the first coat and finish it in one direction preferably at right angle to the previous coat.

Curing

- Never use curing compounds.
- In hot weather, provide suitable protection against weather conditions while setting.
- In cold, humid or unventilated areas, it may be necessary to leave the application for a longer curing period or to provide adequate ventilation.

Finishing

- When surfaces are to be coated after treating with **CemoCoat**, it should be left to cure for at least 7 days. Do not use solvent base paints.
- When a sand / cement plaster finish is required on top of **CemoCoat**, it is essential to apply a rough coat (spatter dash coat) of sand / cement mortar modified with **CemoBond** onto the final coat of **CemoCoat** while it is still tacky.

Coverage Rate

0.75-0.9 kg/m^2/coat (Minimum 2 coats are required).
Depending on the condition of the surface and method of application.
Note: Coverage rate takes no account of wastage and may vary according to the type of surface involved.

Technical Data

Density	2 kg/liter
Substrate temperature	+5^{o}C minimum / +40^{o}C maximum
Compressive strength	After 28 days: 30 - 35 N/mm^2
Bond strength	After 28 days: 2 - 3 N/mm^2
Positive Pressure	1 Bar
Toxicity	Non toxic
Pot life	Approx. 60 minutes at 20^{o}C
Time between coats	6 hours minimum @ 20^{o}C
Color	Grey - off White
Shelf Life	12 months when unopened.

Composition

CemoCoat Powder is blend of specially selected cements, silica sand and reactive fillers.
CemoCoat Liquid is component of blended acrylic copolymers and wetting agents.

Packing

CemoCoat is available in 20kg double pack (15kg powder + 5kg liquid).

Colors

CemoCoat is available in grey and off white.

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.

Storage

- Store out of direct sunlight, clear of the ground, on pallets protected from rainfall.
- Avoid excessive compaction.

Important Recommendations

- Avoid application in direct sun and/or strong wind.
- Do not add water to **CemoCoat** in any circumstances.
- Apply only to sound, prepared substrates.
- Do not exceed maximum layer thickness, the maximum application thickness is 2 mm/coat.
- Do not mix more material than can be used in one hour (pot life).
- When rain is anticipated within 24 hours after application, the surface should be protected.
- For underground structures, backfilling can be carried out 3 days after completion of the **CemoCoat** treatment.
- Filling water retaining structures with water can take place usually not less than 14 days after application. If earlier filling is required, filling may be considered after not less than 7 days ensuring that the surface is thoroughly checked for hardness.

- Product Technical specifications may be updated by TechnoBit without prior notice.
- Issue Date of this Techinical Data Sheet is **June / 2024**
  The Information Provided by This Issue Cancels Any Previous Issues.

ISO 9001 OHSAS 18001 ISO 14001