



Vetoproof CM744

Polymer-modified cement-based waterproofing membrane

Uses

- As a textured protective cementitious finish for boundary walls, blocks, concrete...etc.
- Waterproofing under tiles in wet areas.
- To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water.

Product Description

Vetoproof CM744 is a two-component polymer-modified protective coating for concrete and masonry, its supplied in ready to mix kits that can be applied by stiff brush or trowel. Vetoproof CM744 is used to re-face and even out variations in concrete and masonry surfaces. It provides a seamless, slightly flexible waterproof coating suitable for water tanks, reservoirs, and roofs. The product provides a tough, durable wear-resistant coating that can withstand light pedestrian traffic, and has excellent weather resistance for exterior applications. *Discoloration may occur due to the elements, but the function remains intact*.

Advantages

- Excellent barrier to carbon dioxide, chloride ions, and water.
- Allows water vapor to escape from the structure.
- Breathable.
- Good weatherability, durable in all climatic conditions, including UV stability.
- Cost-effective.
- Non-toxic - ideal for potable water tanks.
- Effectively covers poured concrete that is pitted.

Standards Compliance

- EN 1504-2 Surface protection systems for concrete.

Design Criteria

The coating should be applied in two coats to achieve a total dry film thickness of not less than 2 mm. Areas subjected to light foot traffic should receive minimum 2 mm thickness and an additional 2 mm coating should be applied to areas of moderate to heavy pedestrian conditions. Vetoproof CM744 must be applied to the substrate at the coverage rates recommended achieving the correct protective properties.

Technical Data

| Vetoproof CM744 | Typical Values @ 23°C |
|---|---|
| Pot Life (Minute) | 40 - 60 |
| Toxicity - BS 6920 | Pass |
| Mixed Density (kg/liter) | ~ 1.7 |
| Chloride Content | Nil |
| Application Temperature (°C) | 5 to 35 |
| Harmful to EEC 88/379 | No |
| Flame spread index & Smoke - developed index - ASTM E84 | Zero |
| Permeability to CO ₂ - EN 1062-6 | S _D > 50 m |
| Permeability to water vapor EN ISO 7783-1 | Class I S _D < 5 m |
| Capillary Absorption and permeability to water - EN 1062-3 | w < 0,1 kg/m ² · h ^{0,5} |
| Adhesion strength by pull - off test - EN 1542 (N/mm ²) | Without trafficking: ≥ 0,8 (0,5) ^b With trafficking: ≥ 1,5 (1,0) ^b |

Usage Instructions

Surface Preparation

All surfaces should be dry and free from contamination, such as oil, grease, loose particles, decayed matter, moss algal growth, laitance, and all traces of mold release oils and curing compounds. This is best achieved by lightly grit-blasting the surface. Where moss, algae, or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process.

Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with a Saveto repair system. It is essential that all surfaces that receive Vetoproof CM744 be pre-soaked with clean water before applying Vetoproof CM744.

For further advice, consult the local Saveto office.

Mixing

Pour Vetoproof CM744 liquid concentrate from the plastic container into a suitably sized mixing container. Commence mixing with a propeller agitator attached to a slow speed drill (300 - 500 rpm). Add the powder component gradually to the liquid to avoid lump formation and mix for 2 to 4 minutes. Use Vetoproof CM744 immediately after mixing. Do not mix more material than can be used within the pot life. Keep mixing Vetoproof CM744 during the application.

Application

For best results, surfaces should be damp. To obtain the protective properties of Vetoproof CM744, observe the correct rates of the application. Use a short, stiff brush, preferably 120-200 mm width, and apply in one or two coats as required. Trowel applications should use the correct mixing ratio to obtain satisfactory consistency.

The application of Vetoproof CM744 should not commence if the temperature of the substrate is below 5°C. Application of Vetoproof CM744 on hot substrates, i.e., over 35°C, is not recommended. It is recommended that for general resurfacing, each coat should be 1mm thick. Areas subjected to light foot traffic should receive at least 2 mm thickness of Vetoproof CM744, and an additional 2 mm should be applied if conditions are moderate to heavy pedestrian traffic. If in doubt about the condition of the substrate, consult Saveto technical department for any additional information.

Curing

Allow the Vetoproof CM744 to cure for at least 28 days before commissioning.

Cleaning

Clean tools with water promptly before material hardens. Hardened material can be mechanically removed.

Legal Disclaimer

Saveto endeavors to ensure that any advice, recommendations, information it may give is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products because it has no direct or continuous control over where or how its products are applied, whether or not following any advice, specification, recommendation, or information given by us. Saveto has the right to change any of the technical datasheets specifications upon its discretion without prior notification.

Hard copies of TDSs are printed once or twice a year. Our technical data sheets are continuously updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Packaging & Coverage

| Product | Pack Size | Theoretical Coverage |
|-----------------|-----------|---|
| Vetoproof CM744 | 25 kg kit | 1.7 kg/m ² /coat @ 1 mm thickness |

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed bag and container of Vetoproof CM744 and have a shelf life of 12 months, provided they are stored off the ground in a dry, shaded place below 35°C.

Limitations

- Do not apply the product at a temperature less than +5°C.
- It is recommended to use fiberglass mesh in areas with either small cracks or in regions under particular stress while the first coat is still wet.
- For further information contact our technical department.

Health & Safety

Vetoproof CM744 contains cement powders that release alkalis that can be harmful to the skin when mixed or become damp. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, goggles, and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with the eye, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Vetoproof CM744 is non-flammable.

For more information, refer to the material safety data sheet.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.