

Product Description

CEMFLEX-1K is a fine cement aggregate mixed with acrylic polymer used for waterproofing application. The cured material offers good flexibility and adhesion. It has excellent UV and weather resistance.



Uses & Applications

CEMFLEX-1K is recommended to use for many areas that required waterproofing such as:

- Exterior and interior concrete structures.
- Swimming pools, balconies.
- Potable water tanks and basements.
- Bathroom, kitchen, wet areas.

Key Benefits

- Single component, just mix with water.
- Excellent adhesion to sound prepared concrete substrates.
- Protect concrete structure from carbonation and chlorides.
- Non-toxic, therefore suitable for use in potable water applications.
- Breathable – allows transmission of water vapor.
- Easily overcoated with other membrane materials to provide further protection and aesthetic quality.

Technical Data

CHARACTERISTICS	RESULTS	TEST METHOD
Appearance	Grey powder	-
Mixing Ratio (Cemflex-1K : water)	2.5:1 by weight	-
Hardness	90 ± 5	ASTM D2240
Tensile Strength	1.0 MPa	ASTM D412
Pot life at 30 °C	30 – 45 mins	-

Application Instructions

Substrate Preparation

- The substrate should be clean and sound, free of dust loose particles, grease, oil, primers from previous membrane systems or bitumen. Old waterproof membrane should be removed by shotblasting or mechanical means.
- Cracks, holes and honeycombs must be repaired prior to application.

WATERPROOFING SYSTEM

Mixing

- Mix Cemflex-1K with water at the ratio of 2.5:1. Slowly add the powder to the water and mix to a lump free smooth consistency by a low-speed drill.

Application

- Saturate the concrete's surface with clean water. Apply the first coat while the surface is still damp but no free-standing water. Apply using a short stiff bristle brush, rubber squeegee or roller at a rate of 1.0-1.5 kg/m² per coat. Taking care that each layer is not thicker than 1 mm.
- Leave the first coat to dry for 2-3 hours before applying the second coat. The second coat can be rubbed down with a soft dry sponge. Spray or trowel application is acceptable providing the mixing ratio is adjusted to achieve the right consistency.

Curing

- CEMFLEX-1K should be protected from high wind & intense sunshine. Keep moist for 3-4 days after application. Protect from rain until fully hardened.
- For potable water tank, must apply on positive side, curing for 5-7 days before fill up.
- Bathroom and swimming pools, tiling can be carried out after 3-5 days.

Consumption Rate	Coat	Coverage per set
1.0-1.5 kg/m ² /coat	2	13 m ²

* Coverage rate may vary due to porosity of surface including application method. Field trials are recommended.

CLEANING

- Tools and equipment should be cleaned whilst screed is still wet using clean water. Hands and skin should be cleaned immediately with clean water.

Precaution: Do not expose to water during setting.

Safety Instructions

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

Packing

20 kg. per bag.

Storage & Shelf Life

Material must be kept in-door at room temperature, avoid expose of direct sunlight. Product Shelf life is 9 months in unopened package and under suitable storage condition.

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Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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