

Cemkrete 109 Flex

CEMKRETE®

High performance polymer modified elastomeric cementitious waterproofing membrane

Innovative products for your success

Description

Cemkrete 109 Flex is a high performance two component polymer modified waterproof membrane which is supplied in ready-mix kits. When mixed, an easily brushable coating is produced. It can simply be applied by a stiff brush, roller, or trowel to obtain the desired thickness.

Cemkrete 109 Flex consists of specially selected cements graded hard wearing aggregates and additives supplied in powder form together with a liquid component of polymers providing exceptional adhesion, resiliency, flexibility, toughness and durability.

Uses

Cemkrete 109 Flex when fully cured, provides a seamless elastic waterproof membrane for use in roofs wet areas, basement, pre-cast joints where a tough elastomeric water tight membrane is required.

Advantages

- Excellent to apply to damp substrates
- Elastomeric - able to bridge cracks
- Able to accept foot trafficking when fully cured
- Factory pre-blended two component system ensure Quality control at site
- No primer required
- Excellent to withstand water pressure

Standards Compliance

Cemkrete 109 Flex conforms to the specification of the following standard:

DIN 1048, Part 5, 1991
ASTM E96 : 95
ASTM D412 : 91 and
ASTM D2240 : 95

Technical Service

Cemkrete offers a comprehensive technical support service to specifiers, end users and contractors. It can also offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations where its demanded.

Properties

Product Properties

Appearance	Powder cement
Powder	grey
Liquid	white
Density @ 25°C	1.8 – 1.9kg/L
Pot life @ 25°C	Approx 30 min

Technical Properties

Compressive strength	more than 26 N/mm ²
Flexural strength	more than 6 N/mm ²
Water absorption	less the 3.4 %
Adhesion to Substrate (ASTM D4541:1989)	more than 1.20 N/mm ²
Shore A hardness (ASTM D2240:1997)	40
Tensile Strength (ASTM D412-91)	>1.3 N/mm ²
Water Permeability (ASTM E96:1995)	Nil
Water Vapor Transmission (ASTM E96:1995)	0.50 g/hr-m ²
Crack Bridging (ASTM C 765:1993)	Passed
Low Temperature Flexibility (ASTM C 765:1993)	Passed
Setting Time	<ul style="list-style-type: none"> • Foot traffic: 4 hours • Light vehicle: 24 hours

Instruction for Application

Preparation

All surfaces which are to receive **Cemkrete 109 Flex** coating, must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesions should be spalled out and deeply disintegrated concrete should be removed to make sound concrete and repaired with Cemkrete repair system.

Application

For best results damp the surface before coating with **Cemkrete 109 Flex** Use a short, stiff bristle brush preferably 120 to 200 mm in width. Apply like a paint using one or two coats as required. For trowel application, ensure that the substrate is leveled and repaired of any undulations or pot holes. **Cemkrete 109 Flex** should be applied to the recommended coverage as follows: It is recommended that general re-surfacing and areas subjected to light foot traffic should receive a **Cemkrete 109 Flex** in two coats of 500 microns each to give a 1mm thick coating. Additional coatings may be required for areas of moderate to heavy pedestrian conditions.

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Mixing

The **Cemkrete 109 Flex** Liquid concentrate is poured from the plastic container into the metal drum supplied and mixed mechanically with a slow speed drill (350-450 rpm) fitted with a Mixing Paddle. Add the powder component gradually to the liquid avoiding lump formation and mix for 4-5 minutes until a smooth consistent mix is achieved. Use the material within the recommended pot life.

Mixing Ratio: Cemkrete 109 Flex : 5 : 2

Waterproof coating

- The first coat
Approx. 2 kg / m² per coat.
- The second coat
Approx. 2 kg / m² per coat.

Note: Coverage figures are theoretical and due to wastage factors and the variety of nature of probable substrates the practical coverage will be varied.

Cleaning

Cemkrete 109 Flex should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

Supply

Components:

- **Powder :** 25 kg
- **Liquid :** 10 kg.

Storage

Cemkrete 109 Flex has a shelf life of 12 months in unopened conditions and kept in a dry store.

Precautions

Health and Safety

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Powder products should be handled to minimize dust formation and therefore use a light mask if excessive dust unavoidable.

Additional Information

Cemkrete manufactures a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local **Cemkrete** office - as below.

Important Note: **Cemkrete** warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst **Cemkrete** endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, **Cemkrete** cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.