

CEM-KOTE™ FLEX TC

Flexible Cementitious Thin Coating

DESCRIPTION

CEM-KOTE FLEX TC is a highly flexible, hydraulic cement based, two-component system, consisting of a dry Component A and a liquid Component B.

USES

CEM-KOTE FLEX TC is used in finishing of CEM-KOTE FLEX ST waterproofing in swimming pools or other similar applications, where superior flexibility and breathability are required.

FEATURES/BENEFITS

- Superior flexibility.
- High freeze/thaw resistance.
- Self-curing.
- Chemical resistant.
- Breathable.
- Excellent bond.
- High resistance to carbon dioxide diffusion.
- Very low shrinkage.
- Vermin proof.
- Salt resistant.
- Non-toxic.

PACKAGING

CEM-KOTE FLEX TC Premix Kit consists of dry Component A, packaged in 31.2 - 33.9 lb. (14.2 - 15.4 kg) bags, and liquid Component B, packaged in 2.2 - 2.3 gallon (8.4 - 8.6 L) plastic jugs.

COLOR

White.

YIELD

CEM-KOTE FLEX TC yields approximately 0.48 - 0.50 ft.³ (13.6 - 14 L). The theoretical coverage of CEM-KOTE FLEX TC is 144 - 149 ft.²@ 40 mils (13.6 - 14 m² @ 1.0 mm) thickness per kit applied in two coats. The actual coverage will depend on surface roughness and the thickness applied. The applicator must carry out a sample application to determine the actual coverage for the given substrate and application thickness.

SHELF LIFE

CEM-KOTE FLEX TC, when stored on pallets in a dry, cool area, free from moisture and direct sunlight, has a shelf-life of 12 months. The liquid Component B must not freeze.

TECHNICAL DATA

Elongation in direct tension	25-30%
Salt Scaling Resistance (ASTM C 672)	Excellent
Water Vapor Permeance (ASTM E 96) Wet Cup, 1 mm	1,270 ng/Pa.s.m ² (23.2 perms)
Water Vapor Permeability, Engelfried-Klopfer (S _d < 3 m)	S _d =0.14 m

APPLICATION

Current guide specification and application instructions contain additional information specific to each application and must be followed. Consult Gemite's technical service before starting a project to ensure the correct surface preparation, crack treatment, application procedures, and suitability for a given environment.

CONTINUED ON REVERSE SIDE...

Surface Preparation ... Repair deeper areas with MEADOW-CRETE® GPS from W. R. MEADOWS. Remove all deteriorated and loose concrete, form release agents, oil, grease, laitance, dust, dirt, and efflorescence by dry or wet sandblast, shot blast, or high pressure water, min 5,000 psi (34.5 MPa) or 3,500 psi (24 MPa) with sand in the nozzle, prior to application of CEM-KOTE FLEX ST. The proper surface preparation of CEM-KOTE FLEX ST surface is essential for application of CEM-KOTE FLEX TC. Use the same cleaning procedure as for CEM-KOTE FLEX ST and make sure that water collected in horizontal slab depressions is removed by broom or compressed air. Leaving little puddles behind results in formation of poorly bonded dust layer in the depressions, which may later cause debonding of CEM-KOTE FLEX TC in those areas.

Crack and Corners Treatment ... All cracks must be treated using CEM-KOTE FLEX ST and REINFORCING FABRIC NW prior to the application of CEM-KOTE FLEX ST. Pre-fill any open cracks larger than 80 mils (2 mm) with CEM-KOTE FLEX ST. Apply a thin coat of CEM-KOTE FLEX ST at 4-6" (10-15 cm) wide over the crack. Embed a strip of REINFORCING FABRIC NW into the wet CEM-KOTE FLEX ST and apply a second coat to fully cover the REINFORCING FABRIC NW. Form 2" (5 cm) coves in vertical and horizontal corners and apply a layer of CEM-KOTE FLEX ST with an embedded strip of REINFORCING FABRIC HD.

Mixing ... Use a clean paddle or helix screw type mortar mixer or heavy duty drill (400 - 600 RPM) with a mixing paddle. Thoroughly mix the liquid Component B prior to its use. Gradually add the dry Component A into the liquid Component B and mix until a smooth and lump-free mix is obtained. A small amount of water can be added, if required, at higher ambient temperatures.

Application ... Apply first CEM-KOTE FLEX ST waterproofing layer in two coats to approximate thickness of 60 – 80 mils (1.6-2.0 mm) Roll or brush apply CEM-KOTE FLEX TC in two coats, to build at least a 40 mils (1.0 mm) thick layer. The second coat must be applied into a wet first coat, usually within 10-15 minutes, depending on temperature and relative humidity.

Curing ... Cure CEM-KOTE FLEX TC by air drying for a minimum of three days prior to continuous exposure to water. Protect fresh applications from rain, strong wind, and intense sunlight for 12 hours. When working under tarps at freezing temperatures, use electrical heaters. Avoid using propane heaters to prevent "carbonation" of the material.

LIMITED WARRANTY

Gemite Products Inc. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. Gemite Products Inc. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As Gemite Products Inc. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific applications and assume all responsibilities in connection therewith.

Cleanup ... All tools must be cleaned with water immediately after use. Cured material can only be removed mechanically.

Maintenance ... Some maintenance may be required, depending upon the application. A cleaning and simple recoating is usually sufficient.

PRECAUTIONS

Do not apply CEM-KOTE FLEX TC when the temperature is expected to be below 40° F (4° C) within 48 hours or when rain is imminent. Follow hot weather concreting procedures when applying CEM-KOTE FLEX TC at temperatures exceeding 77° F (25° C). Proper surface preparation is essential for a successful application of CEM-KOTE FLEX TC. CEM-KOTE FLEX TC is not designed for high traffic areas. CEM-KOTE FLEX TC must be always used in combination with CEM-KOTE FLEX ST as a base coat, especially in exterior swimming pool applications.

HEALTH AND SAFETY

CEM-KOTE FLEX TC is non-toxic. Your skin might be sensitive to hydraulic cement or the liquid additive. We recommend use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult Material Safety Data Sheet for additional information.

MANUFACTURER:

Gemite Products Inc.
1787 Drew Rd., Mississauga, Ontario, L5S 1J5 Canada
Tel. (888) 443-6483 Fax (888) 443-6329
Email techinfo@gemite.com Web www.gemite.com

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.