of Innovative Construction Chemicals

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Gemite Products Inc.

Cem-Kote Flex TC

Flexible Cementitious Thin Coating

MANUFACTURER

Gemite® Products Inc.

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FEATURES

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

PRODUCT DESCRIPTION

Basic Use

Cem-Kote Flex TC is a finishing coating in swimming pools or similar applications, where a superior flexibility & breathability are required.

Composition and Materials

Cem-Kote Flex TC is a highly flexible, polymer modified cementitious 2- component system.

Limitations

Do not apply Cem-Kote Flex TC when the temperature is expected to be below 4 °C (40°F) within 48 hours, or when rain is imminent. Follow Hot Weather concreting procedures when applying Cem-Kote Flex TC at temperatures above 25°C (77°F). Cem-Kote Flex TC is recommended as a finish coat over Cem-*Kote Flex ST base coat, especially in exterior swimming polls.*

Health and Safety

Cem-Kote Flex TC is nontoxic. 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 TC in those areas. ONLY. Consult SDS for additional information.



White

Packaging

Cem-Kote Flex TC Premix kit consists of dry Comp. A 14.3 kg (31.5 lbs) bag and liquid Comp. B 8 L (2.1 USG) plastic jug.

Cem-Kote Flex TC yields approx. $13.7 L (0.48 \text{ ft}^3)$. Theoretical coverage of Cem-Kote Flex TC is 13.7 m² @ 1.0 mm (147 ft² @ 40 mils) thickness per kit applied in two (2) coats.

The actual coverage will depend on surface roughness & applied thickness. Applicator must carry out a sample application to determine the actual coverage for the given substrate and application thickness.

Storage and Transportation

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. Packaged 40 kits per pallet.

TECHNICAL DATA

Elongation in direct tension	25 -30 %
Salt Scaling Resistance (ASTM C672)	excellent
Water Vapor Permeance (ASTM E96) Wet Cup, 1 mm	1,270 ng/Pa.s.m ² (23.2 perms)
Water Vapor Permeability, Engelfried-Klopfer $S_d < 3 \text{ m}$	$S_d = 0.14 \text{ m}$

INSTALLATION

Current Guide Specification & Application Instructions contain additional information specific to each application and must be followed. Consult Gemite's Technical Service before starting a project to confirm correct surface preparation, crack treatment, application procedures & suitability for a given environment.

Surface Preparation

Repair deep delaminations using Gem-Plast TC or Fibre-Patch OV. Remove all deteriorated and loose concrete, form release agents, oil, grease, laitance, dust, dirt and efflorescence by dry or wet sandblast, shotblast, or high pressure water min 5,000 psi (34.5 MPa) or 3,500 psi (24 MPa) with sand in the nozzle.

The proper surface preparation is essential for application of Cem-Kote Flex TC. Remove any water collected in horizontal slab depressions by broom or compressed air. Leaving little puddles behind results in formation of poorly bonded dust layer in the depressions, which may cause debonding of Cem-Kote Flex

Reinforcing Steel

Remove all loose rust from any exposed reinforcing steel and apply two coats of Fibre-Prime rustproofing.

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 2 mm (80 mils) with Cem-Kote Flex ST. Apply a thin coat Cem-Kote Flex ST, 10-15 cm (4–6 in) wide, over the crack. Embed a strip of the *Reinforc*ing Fabric NW into the wet Cem-Kote Flex ST & apply a second coat to fully cover the Reinforcing Fabric NW.

Form 5 cm (2 in) coves in vertical and horizontal corners and apply a layer of Cem-Kote Flex ST with embedded strip of the Reinforcing Fabric HD.

Mixing

Use a clean paddle or helix screw type mortar mixer, or heavy duty drill (400-600 RPM) equipped with correct mixing paddle. Thoroughly mix the liquid Comp. B prior to its use. Gradually add the dry Comp. A into the liquid Comp. 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 - Polls

(60-80 mills) thickness to provide waterproofing base layer.

Roll or brush 2-coats of Cem-Kote Flex TC to build at least 1.0 mm (40 mils) thick layer. The second coat must be applied into a wet first coat, usually 10-15 minutes, depending on temperature and relative humidity.

Curing

Cure Cem-Kote Flex TC by air drying for a min. days prior to a 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. Do NOT use propane heaters to prevent "carbonation" of the material.

Clean Up

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

AVAILABILITY AND COST

Cem-Kote Flex TC is available worldwide. Contact Gemite Products Inc. for the name of the Representative/Distributor nearest you and pricing information.

MAINTENANCE

Some maintenance may be required, depending upon the application. A cleaning and simple re-coating is usually sufficient.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

TECHNICAL SERVICE

Apply Cem-Kote Flex ST in two coats to approx. 1.6-2.0 mm For technical advice on the suitability of Cem-Kote Flex TC for a specific application, specification assistance & application advice, contact Gemite Technical Service: USA 888-443-6483 or Canada 905-672-2020.

Short Specification

The finishing coating will be Cem-Kote Flex TC, highly elastomeric, polymer modified cement, manufactured by Gemite Products Inc. [USA 888-443-6483] [Canada 905-672-2020]. It will be mixed and applied according to manufacturer's specifications and recommendations.