



CHEM-KOTE 3

Non-Toxic Solvent-Free Epoxy Coating for potable water

PRODUCT DESCRIPTION

CHEM-KOTE 3 is a two component, 100% solids, epoxy system for use in contact with potable water. This product meets ASTM C-881.

FIELDS OF APPLICATION

For the internal protection of concrete or metal tanks in the following fields:

- Food and beverage processing plants
- Potable water storage tanks and reservoir, etc.
- Canning and bottling factories
- Chemical factories, tanning and paper plants
- Water & sewage treatment, desalination plants.
- Oil refineries, power stations, etc.
- Protective coatings for storage silos, equipment, machinery+ and livestock housing, etc.
- Hospitals, laboratories, abattoirs, etc.

PRODUCT FEATURES

- 100% solids
- For potable water
- Easy 1: 1 mix ratio
- Vertical & horizontal application

PACKAGING

Product	Packaging
CHEM-KOTE 3	2 Gallon (7.57 Liters) Unit Part A: 1 Gal Can, Part B: 1 Gal Can
	10 Gallon (37.85 Liters) Unit Part A: One 5 Gal Pail, Part B: One 5 Gal Pail

TECHNICAL DATA

Technical Data for Unmixed Parts

Property @ 25°C (77°F)	Resin - Part A	Hardener - Part B	Test Method
Solids	100%	100%	-
Color	Clear	Grey	-
Density Lb/Gal (Kg/L)	9.34 (1.12)	11.5(1.38)	ASTM D1475
Shelf Life	1 year	1 year	-
Mixing Ratio	1 : 1 By volume		-

Technical Data for Mixed Parts

Property (Mixed A & B)	Value @ 25°C (77°C)	Test Method
Mixed Density, Lb/Gal (Kg/L)	10.4 (1.25)	ASTM D-1475
Gel Time (60 gm)	32 minutes	ASTM D-2471
Hardness Shore	70 D	ASTM D-2240
Tensile Strength @ 7 days, Psi (MPa)	4500 (30.6)	ASTM D-638
Flexural Strength @ 7 days, Psi (MPa)	3000 (20.4)	ASTM D-790
Compressive Strength @ 7 days, Psi (MPa)	5000 (34)	ASTM D-695
Bond Strength to concrete @ 7 days, Psi (MPa)	425 (2.9)	ASTM C-321
Elongation, %	35	ASTM D-638
Water Absorption %, 24 hrs.	<0.35	ASTM D-570

APPLICATION DATA

Surface Preparation: surface of application should be clean and sound. The surface must be free of any dust, oil, grease, laitance, curing compounds, or any other contaminants. It may be dry, damp or wet, but must be free of standing water. The very best results are obtained on dry concrete. DO NOT apply on surfaces which have been sealed with a permanent type of form oil, curing compound or release agent. Remove these substances before application. The surface temperature must be 40°F. and rising.

On new concrete surfaces, remove laitance and unbonded cement particles by acid etching. Dampen the surface with tap water. Dilute muriatic acid to a 10% solution. ALWAYS add the acid to the water. Scrub the acid/water solution onto the surface at the rate of 50 square feet per gallon. Allow the solution to sit for 20 minutes or until the acid bubbling stops. Scrub and flush thoroughly with clean water. Remove water by squeegee, vacuum or broom. Allow the surface to air dry. Please Note: If the use of muriatic acid is prohibited, check with International Chem-Crete for substitute etching solution.

Mixing: stir each component separately. Mix 1 part A with 1 part B by volume into a clean mixing container. Mix the epoxy with a slow speed drill with a mixing paddle attachment. Carefully

scrape the sides and bottom of the pail during mixing. Blend for 3 minutes. Mix only the amount of material that can be used within the pot life. Please note: large batches of epoxy will cure much faster than small batches. Mixed epoxy will cure much faster in hot weather than in cold weather.

Application: CHEM-KOTE 3 may be applied by spray, roller, or brush. This material should be applied at the rate of 160 square

feet per gallon. Two coats are recommended. For flooring: pour mixed material onto the concrete and pull out the desired millage using a notched squeegee and backroll. Use a spiked roller to remove any entrapped air from the coating. Apply the second coat after the first coat is tack-free, but at least within 36 hours. If the first coat is allowed to cure longer than 36 hours, the surface must first be roughed up by a light brush blasting or by sand paper. Use only a high quality roller cover. Use 3/8" mohair nap with phenolic core.

CLEANING

All tools and equipment after use must be cleaned immediately with mineral spirit or CHEM-CRETE BLENDED SOLVENT.

STORAGE

The product can be stored for minimum of twelve months at temperature from +10 °C to +35 °C in the unopened original packaging. Protect from direct sunlight.

SAFETY PRECAUTIONS

After hardening thoroughly, CHEM-KOTE 3 is physiologically harmless.

Keep the resin and hardener away from the eyes mouth and skin. Do not breathe in the vapors. The uncured mixture can cause irritation of the skin. For best protection, wear rubber or plastic gloves. In case of contamination, wipe away resin or hardener immediately from the skin using paper towels and then wash with soap and water or hand cleaning detergent.

Empty resin and hardener cans must be destroyed. Under no circumstances use them to store food or drink even if they have been thoroughly cleaned.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International Chem-Crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AM22319.

Manufactured By:



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