TechCrete
Waterproofing System

PolyCote Coating

TechCrete® PolyCote Coating is a brushable/rollable grade, pure polyurea coating that has been created and formulated to the physical properties of a high-performance coating but with a user-friendly application. This product exhibits excellent adhesion to concrete and other inorganic substrates. TechCrete PolyCote Coating contains a proprietary chemistry that bonds organic materials to inorganic materials.

TechCrete PolyCote Coating is an 84% solids product with no VOC's. Standard product is light gray in color, but additional colors may be available.

TYPICAL APPLICATIONS

- Basins & Reservoirs
- Bridges
- Concrete Restoration
- Marine Structures
- Parking Structures
- Pools
- Floors
- Water Treatment

PREPARATION

TechCrete PolyCote Coating must be applied to a clean, dry, dust-free concrete surface, at least 28 days old. If the surface is not clean, then the use one of the following Alchemco Clean & Repair (ACR) products or a shot blast system is required when prepping the surface for warrantied applications. Chemical cleaning may require multiple applications and the use of different products to achieve complete cleaning. Certain types of cleaning equipment may improve performance and speed of application when applying chemical cleaners, contact the Technical Department for a list of approved equipment and cleaning methods.

- ACR Concrete & Masonry Cleaner
- ACR Emulsifying Cleaner
- ACR Concrete & Masonry Etch
- ACR Paint & Stain Remover
- ACR Rust Converter & Inhibitor

Contact the Technical Department for help and directions for which cleaning product will provide the best option for a clean surface.

IMPORTANT: Avoid acrylic caulks or any compound with silicone. TechCrete PolySeal Sealant is required to be used for all cracks, joints, and seams in the surface.

APPLICATION EQUIPMENT

- High quality foam rollers
- Good Quality roller frames are suggested
- Paint tray with disposable paint tray liner
- Measuring and mixing containers
- Stirring equipment and stirring sticks

APPLICATION

Mix the RESIN side by itself thoroughly, so that any pigmentation is uniform. It is important that the material be thoroughly mixed including any material along the sides and bottom of the mixing container. Do no whip or introduce air into the material while mixing.

Stir ISO side gently but thoroughly by hand. MIX EXACTLY PARTS ISO TO RESIN (1 ISO TO 1 RESIN) together with a jiffy or squirrel type mixer in a clean container until thoroughly mixed. Be careful not to introduce air into the mixture.

Mix only enough product that can be applied within 10-20 minutes of mixing. Product will begin to set and will no longer be able to be applied after 40 minutes.

WORKING TIME:	20 - 40 minutes @ 55^0 F (13^0 C)
DRY TO TOUCH:	30 - 45 minutes @ 55^0 F (13^0 C)
RECOAT WINDOW:	4 - 8 hours @ 55^0 F (13^0 C)
RETURN TO SERVICE:	2 - 24 hours (dependent on use)
POT LIFE:	20 - 40 minutes

COVERAGE RATES

	MINIMUM	MAXIMUM
Wet Mils (microns):	**10** (254)	**500** (12700)
Dry Mils (microns):	**8.4** (213)	**420** (10668)
Coverage Sq/Ft / Gal:	**3.2**	**160**

Yield Sq. Ft. / Gallon @ 1 mil thick: 1600

CHEMICAL RESISTANCE

The following chemicals have been tested and TechCrete PolyCote Coating is recommended for use around these chemicals.

Acetic Acid 100%	Gasoline
Antifreeze 50% Ethylene Glycol	Motor Oil
Hydrochloric Acid 10%	Brake Fluid
Hydrochloric Acid 10%	Sulfuric Acid 10%
Sodium Hydroxide 10%	

PERFORMANCE CHARACTERISTICS

TEST NAME	TEST METHOD	RESULTS
Adhesion	DelFesko PosiTest at-CM Steel	>1200 psi
Elongation	ASTM D638	approx 100%
Tensile Strength	ASTM D638	>1550 psi
Shore D Hardness	ASTM D2240	approx. 52
Typical UV Resistance	ASTM G53, 1000 hrs, UVB 313 bulb	1000 hours QUV exposure with less than delta 2 color change

SHELF LIFE & STORAGE

Containers should be sealed and kept in a cool dry location. Avoid prolonged exposure to direct sunlight. If properly maintained, this product has a shelf life of one (1) year.

WARRANTY & SYSTEMS

The following warranties may require the use of **TechCrete PolyCote Coating** and are only available when the full system is applied by a ***TechCrete Certified Applicator***;

- New Construction: **TechCrete DIAMOND *30-Year Limited Liability Material & Labor Warranty.***
- New & Existing Construction: **TechCrete EMERALD *15-Year Limited Liability Material & Labor Warranty.***

The following warranties are available when using **TechCrete PolyCote Coating**;

- New & Existing Construction: **TechCrete *20-Year Limited Liability Material Warranty***. This warranty requires the project to be registered.
- New & Existing Construction: **TechCrete *2-Year Limited Liability Material Warranty***.

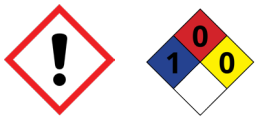
For additional information about the Alchemco system specifications or available warranties, either contact your local Alchemco distributor or Alchemco Technical Department at info@alchemco.com or call 800-610-2895.

PACKAGING

TechCrete PolyCote Coating is supplied in the following sizes;

Quart Set:	1 qt of ISO & 1 qt of RESIN
Gallon Set:	1 gal of ISO & 1 gal of RESIN
Pail Set:	5 gals of ISO & 5 gals of RESIN
Drum Set:	52 gals of ISO & 52 gals of RESIN

WARNINGS



CAUTION: May irritate skin and eyes.

FIRST AID: Eyes, flush with water for 15 minutes. Skin, remove by thoroughly rinsing with water.

ALL PRODUCT SHOULD BE USED COMPLETELY OR DISPOSED OF PROPERLY. Dry empty containers may be recycled in a recycling program.

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.

See Safety Data Sheet for further details regarding safe use of this product. Alchemco, 8590 Sanford Drive, Henrico, VA 23228 800-610-2895

WARRANTY DISCLAIMER
Because of conditions of use which may be beyond our control, Alchemco shall not be held responsible in any manner for any personal injury or property loss resulting to the buyer or any other person from handling, storage, or use of this material not in accordance with directions. The buyer and/or user assumes all risk and liability resulting from improper handling or usage. There is no warranty expressed or implied of any kind, except as supplied in writing.

A division of MBC North America, Inc.
8590 Sanford Drive, Henrico, VA 23228
800-610-2895 www.alchemco.com

© Copyright January 2019. All Rights Reserved.
ACR, TechCrete and Alchemco are registered trademarks of MBC North America, Inc.