



DIAMITE CSC

**100% Solids, Epoxy Coating for
Chemical Spill Containment**

1. Product Description

a. **Basic Use:** Diamite CSC is a 100% solids, high performance epoxy compound intended for use as a chemical-resistant and containment coating to protect concrete, brick or block walls and floors. Diamite CSC is resistant to most acids, caustics, solvents and other harsh chemicals. Diamite CSC is applied to walls and floors of spill, splash and chemical leakage containment areas.

b. Features/Benefits:

- Consists of 100% solids epoxy to allow total compliance with VOC regulations.
- May be used outside when top-coated with Diathane.
- Available in clear and many standard colors.
- Easily applied with commonly found tools and equipment.
- Contains no volatile solvents permitting interior application with virtually no risk of fire hazard or toxic odors.
- USDA approved as an acceptable coating in processing and storage areas for meat and poultry food products.
- Floors may be made slip-resistant by simply adding silica quartz to freshly applied coating.
- Produces a seamless floor and wall coating system preventing infiltration of dangerous chemicals into environment.
- Easy clean-up with soap and water.

c. **Typical Facilities:** Tank farms, caustic storage, pharmaceutical manufacturing plants, chemical processing plants, sewage and water treatment plants, paint or solvent storage areas, metal priming/preparation plants, food processing and automotive plants.

d. **Limitations:** Diamite CSC should not be exposed to heavy wear or severe abrasion. Diamite CSC should not be applied when ambient and substrate temperatures are below 50°F (10°C).

e. **Composition:** Diamite CSC is a two component system consisting of 100% solids epoxy.

f. **Color/Appearance:** Diamite CSC is available in the following colors: black, red, green, white, medium gray, concrete-tone gray, safety yellow and clear.

2. Packaging

Diamite CSC is supplied in units, each containing the proper proportions of liquid components. Standard packaging information is shown below:

Unit Size	Binder	Activator	Shipping Wt.
1.5 gal. (5.7 liter)	1 gal. (3.8 liter)	1/2 gal. (1.9 liter)	15 lbs. (6.8 Kg)
3 gal. (11.4 liter)	2 gal. (7.6 liter)	1 gal. (3.8 liter)	30 lbs. (13.6 Kg)
15 gal. (56.8 liter)	10 gal. (37.9 liter)	5 gal. (18.9 liter)	150 lbs. (68.0 Kg)

3. Estimating/Coverage

The recommended coverage rate for Diamite CSC is 100-150 sq. ft./gal. (2.5-3.7 sq. m/liter). One coat applied at 150 sq. ft./gal. (3.7 sq. m/liter) will produce an 11 mil (0.28 mm) dry film thickness.

4. Technical Data

Resistance to Solvents and Chemicals

-ACIDS-	-SOLVENTS-
Acetic (Use Diamite AC) -----NR	Acetone -----NR
Chromic -----A	Cellosolve -----NR
Citric 10% -----A	Ethyl Alcohol -----A
Hydrochloric 10% -----A	Methyl Ethyl Ketone -----NR
Hydrochloric Conc. -----D	Mineral Spirits -----A
Hydrochloric Vapor -----A	Toluene -----A
Fatty Acid -----A	Xylene -----A
Lactic 10% -----A	-PETROLEUM DERIVATIVES-
Muriatic -----A	Aircraft Hydraulic Fluid -----A
Nitric Below 5% -----D	Brake Fluid -----A
Nitric Above 5% -----NR	Fuel Oil -----A
Oleic -----A	Gasoline -----A
Phosphoric 50% -----A	Transmission Fluid -----A
Sulphuric 10% -----A	-MISCELLANEOUS-
Sulphuric 50% -----D	Animal Fats -----A
Sulphuric Conc. -----NR	Calcium Chloride -----A
-ALKALIS-	Detergent Solutions -----A
Ammonium Hydroxide 20% --A	Formaldehyde 37% -----NR
Ammonia Vapor -----A	Glycerine -----A
Calcium Hypochlorite -----A	Salt Solutions -----A
Caustic Cleaners -----A	Urine -----A
Sodium Hydroxide 20% -----A	Vegetable Oil -----A
Sodium Hypochlorite 5% -----A	Water -----A

Key: A-Unaffected, D-Discolored; Not Attacked, NR-Not Recommended

Metalcrete Industries

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5. Directions for Use

a. **Preparation:** The surface to be treated must be physically sound, thoroughly clean, free of oil, wax, curing compounds, loose paint, rust, scale, and completely dry. New concrete must be a minimum of 28 days old. Base concrete should be mechanically abraded by shotblasting or thoroughly etched with Bitesin. All acid-etched concrete surfaces must be rinsed and neutralized with potable water and allowed to completely dry.

b. **Priming:** All concrete to receive Diamite CSC must be primed with Diamite Primer and allowed to dry.

c. **Mixing:** Thorough blending of all components is essential. Use a power drill with a Metco Jiffy mixing paddle. First, mix the binder separately; then, mix the activator separately. Next, add the mixed activator to the mixed binder and thoroughly blend for at least two minutes at revolution speeds that will not entrap air bubbles into the freshly mixed Diamite CSC. Let stand for two minutes and blend again for two additional minutes.

d. **Application:** After the substrate has been primed, apply the mixed coating with a Diamite/Lexite Spreader Tool or by rolling with a short-nap or foam-rubber type paint roller. The rolling operation should proceed in one direction with slow, even strokes. Avoid short, quick, back-and-forth strokes such as are commonly employed in paint rolling techniques.

e. **Working Time/Pot Life:** All mixed coating should be applied within 30 minutes after mixing at 70°F (21°C).

f. **Cure Time:** Diamite CSC becomes tack-free in approximately 4 to 6 hours and may be recoated at this

time with Diamite CSC or Diathane if additional thickness or protection are required. The Diamite CSC surface may be exposed to light traffic 18 hours after final application of the coating. Final cure time requires 3 to 5 days. All cure times are based on ambient and substrate temperatures at 70°F (21°C).

h. **Clean-up:** Either DL Solvent or Waterzall Concentrate and warm water may be used for cleaning tools and equipment.

i. **Maintenance:** Diamite CSC surfaces should be cleaned with a Waterzall Concentrate and water solution. Waterzall Concentrate may also be used at full strength to remove built-up deposits and stains. Diamite CSC may be reapplied to itself.

6. Availability

Diamite CSC is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Diamite CSC is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



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