



DIAMITE BRUSHKOTE

*Solvent-Based Epoxy Coating
for Floors, Tanks, Walls*

1. Product Description

a. **Basic Use:** Diamite Brushkote is a solvent-based epoxy coating intended to protect a wide range of substrates from chemical and abrasion attack. It is immune to harsh chemicals including caustics and most acids. Diamite Brushkote is an excellent choice where a smooth, attractive and easy-to-clean surface is desired.

b. Features/Benefits:

- Two part system reacts chemically to enhance properties.
- Abrasion-resistant coating outwears conventional paints by approximately 5 to 1.
- Excellent bonding properties permit application to most surfaces with incredible adhesion.
- Has the viscosity of conventional paint, permitting application on horizontal or vertical surfaces with a brush or roller.
- Excellent primer for other epoxy and urethane coatings.
- Dense surface will resist mildew and bacteria growth and allow for easy cleaning and maintenance.
- Unaffected by exposure to low temperatures after final curing.
- Bonds to itself allowing for multiple coats.
- Available in clear and colors.

c. **Typical Applications:** Warehouses, laboratories, penitentiaries, mechanical rooms, refineries, sewage treatment plants, manufacturing facilities, corridors, hallways and restrooms.

d. **Limitations:** Diamite Brushkote should not be used outside without being top-coated with Diathane. Interior applications require good ventilation. Do not use near open flames. Applicators must wear protective eye goggles and use respirators designed for solvent odor removal. Diamite Brushkote is not recommended for use over old paint, varnish, linoleum, asphalt, vinyl, quarry or ceramic tile flooring. New concrete must be 28 days old.

e. **Composition:** Diamite Brushkote is a two component liquid compound consisting of epoxy and solvent having the viscosity of conventional paint.

f. **Color/Appearance:** Diamite Brushkote is available in a wide range of standard colors including; black, blue, light blue, brown, dark brown, light brown, medium gray, charcoal gray, concrete-tone gray, dark gray, green, light reflective, red, safety yellow, white, and clear. Custom colors are available at additional cost when quantities exceed 100 gal. (379 liters).

2. Packaging

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

<i>Unit Size</i>	<i>Binder</i>	<i>Activator</i>	<i>Shipping Wt.</i>
<i>2 gal. (7.6 liter)</i>	<i>1 gal. (3.8 liter)</i>	<i>1 gal. (3.8 liter)</i>	<i>22 lbs. (10.0 Kg)</i>
<i>10 gal. (37.9 liter)</i>	<i>5 gal. (18.9 liter)</i>	<i>5 gal. (18.9 liter)</i>	<i>110 lbs. (49.9 Kg)</i>

3. Estimating/Coverage

The recommended coverage rate for Diamite Brushkote is 250-350 sq. ft./gal. (6.1-8.6 sq. m/liter). One coat applied at 250 sq. ft./gal. (6.1 sq. m/liter) will produce a 3-4 mil (0.08-0.10 mm) dry film thickness. For best results, use two coats.

4. Technical Data

a. Chemical Resistance:

<i>Salt Water</i>	<i>Excellent</i>
<i>Skydrol</i>	<i>Good</i>
<i>Urine</i>	<i>Excellent</i>
<i>Diluted Acids</i>	<i>Excellent</i>
<i>Concentrated Acids</i>	<i>Good</i>
<i>Alkalis</i>	<i>Excellent</i>
<i>Solvents</i>	<i>Very Good</i>
<i>Brake Fluids</i>	<i>Very Good</i>
<i>Gasoline</i>	<i>Excellent</i>
<i>Ethylene Glycol</i>	<i>Excellent</i>
<i>Battery Acid</i>	<i>Very Good</i>
<i>Oil</i>	<i>Excellent</i>

Note: Chemical and abrasion resistance may be improved by applying a top coat of Diathane.

- b. **Abrasion Resistance:** Taber Abrasor CS-17 Calibrase Wheel, 1,000 gram load, 500 cycles; 30.2 mg. weight loss.
- c. **Impact Resistance:** Gardiner Variable Impactor 50 in.-lb. (575 mm-Kg.) direct; passed
- d. **Hardness:** ASTM D 2240, Shore D 80.

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 thoroughly cure for at least 28 days. Base concrete should be mechanically abraded by shot blasting or thoroughly etched with Bitesin. All acid-etched concrete surfaces must be rinsed and neutralized with potable water and allowed to completely dry. Concrete surfaces must be at least lightly textured.
- b. **Priming:** All concrete to receive Diamite Brushkote should be primed with Diamite Primer and allowed to dry tack free.. Diamite Brushkote can also be used as its own primer in a two-coat application.
- 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 Brushkote. Let stand for two minutes and blend again for two additional minutes.
- d. **Application:** After the substrate has been primed, distribute the mixed Diamite Brushkote onto the substrate by rolling with a short nap paint roller to insure uniformity. 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. Diamite Brushkote may also be applied with an airless industrial sprayer.
- e. **Working Time/Pot Life:** All mixed Diamite Brushkote should be applied within three hours after mixing at 70°F (21°C).

f. **Cure Time:** Diamite Brushkote becomes tack-free in approximately 8 hours and may be recoated at this time with Diamite Brushkote or Diathane if additional thickness or mils are desired. The Diamite Brushkote surface may be exposed to light traffic 24 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).

g. **Skidproofing:** Anti-skid aggregate may be broadcast into the coating while it is still fresh. Continue until an excess of aggregate remains standing on the surface. After the coating and aggregate have hardened, remove all excess aggregate by sweeping with a stiff broom or vacuuming. Apply one additional coat of Diamite Brushkote to thoroughly lock in place all aggregate and provide a uniform appearance.

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

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

6. Availability

Diamite Brushkote is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Custom colors may take up to 8 working days before shipping. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Diamite Brushkote 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.



Metalcrete Industries

4133 Payne Avenue • Cleveland, Ohio 44103
440-526-5600 • 800-526-5602 • FAX 440-526-5601