



DIAMITE BRUSHKOTE VOC

*Water-Based Epoxy Coating
for Floors, Tanks and Walls*

1. Product Description

a. **Basic Use:** Diamite Brushkote VOC is a water-based, high performance epoxy coating intended to protect a wide range of substrates from abrasion and chemical attack. Diamite Brushkote VOC is totally VOC compliant, allowing application indoors without toxic odors and is an excellent choice where an easy-to-clean and durable surface is desired.

b. Features/Benefits:

- Two component system reacts chemically for enhanced properties.
- Bonds to itself and other coatings for multiple applications.
- Easy clean-up with soap and water.
- Unaffected by exposure to low temperatures after final curing.
- Non-slip finish is achieved by simply adding silica quartz aggregate during the application process.
- Permits interior applications, complying with VOC regulations.
- Available in clear and many standard colors to provide a decorative surface.
- USDA approved as an acceptable floor coating in processing and storage areas for meat and poultry food products.
- Easily applied with commonly found tools and equipment.
- Dense surface resists mildew and bacteria growth.
- May be used as a primer for other epoxy and urethane coatings.

c. **Typical Applications:** Dairies, bottling plants, bakeries, meat and poultry processing plants, schools, hospitals, penitentiaries, mechanical rooms, airline hangars, laboratories, corridors and hallways.

d. **Limitations:** Do not apply when substrate and ambient temperatures are less than 50°F (10°C). It should not be subjected to steel wheel traffic. Avoid thermal shock in service, such as caused by steam cleaning. Do not apply outside unless top-coated with Diathane.

e. **Composition:** Diamite Brushkote VOC is a two component water-based epoxy compound having the viscosity of conventional paint.

f. **Color/Appearance:** Diamite Brushkote VOC 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 gallons (379 liter).

2. Packaging

Diamite Brushkote VOC is supplied in units, each containing the proper proportions of liquid components. The mixing ratio is approximately 4 to 1 by volume. 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>1.6 gal. (6.1 liter)</i>	<i>0.4 gal. (1.5 liter)</i>	<i>21 lbs. (9.5 Kg)</i>
<i>5 gal. (18.9 liter)</i>	<i>4.0 gal. (15.1 liter)</i>	<i>1.0 gal. (3.8 liter)</i>	<i>51 lbs. (23.1 Kg)</i>

3. Estimating/Coverage

The recommended coverage rate for Diamite Brushkote VOC 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

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

a. Chemical Resistance:

<i>Urine</i>	<i>Excellent</i>
<i>Paint</i>	<i>Excellent</i>
<i>Diluted Acids</i>	<i>Very Good</i>
<i>Concentrated Acids</i>	<i>Not Recommended</i>
<i>Alkalis</i>	<i>Excellent</i>
<i>Solvents</i>	<i>Excellent</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>Excellent</i>
<i>Oil</i>	<i>Excellent</i>

b. **Abrasion Resistance:** Taber Abrasor CS-17 Calibrase Wheel, 1,000 gram load, 500 cycles; 56 mg. weight loss.

c. **Impact Resistance:** Gardiner Variable Impactor 50 in.-lb. (575 mm-Kg) direct; passed.

5. Directions For Use

a. **Preparation:** The surface to be treated must be physically sound, thoroughly clean, free of oil, wax, loose paint, rust, scale, and completely dry. New concrete must be thoroughly cured 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.

b. **Priming:** All concrete should be primed with Diamite Primer and allowed to dry tack free. Diamite Brushkote VOC also can 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 VOC. Let stand for two minutes and blend again for two additional minutes.

d. **Application:** After the substrate has been primed, apply the mixed coating 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.

e. **Working Time/Pot Life:** All mixed coating should be applied within 1 hour after mixing at 70°F (21°C).

f. **Cure Time:** Diamite Brushkote VOC becomes tack-free in approximately 4-6 hours and may be recoated at this time with Diamite Brushkote VOC or

Diathane if additional thickness or mils are desired. The surface may be exposed to light traffic 24 hours after final application of the coating. Final cure time required is 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 base coat of Diamite Brushkote VOC and the anti-skid aggregate have hardened, remove all excess aggregate by sweeping with a stiff broom. Apply one additional coat of Diamite Brushkote VOC to thoroughly lock in place all aggregate and provide a uniform appearance.

h. **Clean Up:** Waterzall Concentrate and warm water may be used for cleaning tools and equipment.

i. **Maintenance:** Diamite Brushkote VOC 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 Brushkote VOC may be reapplied to itself.

6. Availability

Diamite Brushkote VOC 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 VOC 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