



TECHNICAL DATA SHEET

MULTICERAMICS™ MC-502-3-3

DESCRIPTION: MULTICERAMICS™ is a unique, one part liquid insulation coating, composed of high-performance nano-technology with tough hydrophobic elastomeric acrylics, and waterborne resins. It's designed to insulate and protect against energy loss from hot and cold temperature variance and can be applied to virtually any surface type. MULTICERAMICS™ will also provide fire resistance to shingles when applied in two coats.

BASIC USES: Versatile as a one-coat insulation system on exterior and interior substrates (roofs, walls, and floors). It's excellent thermal conductivity reduction makes it ideal for transportation vehicles, refrigerated railroad cars and containers. Will stop condensation on HVAC systems, tanks, and storage systems. Ideal one-coat protective system over a wide assortment of substrates that are structurally sound such as conventional concrete, metal, (including aged galvanized), stucco, masonry, and wood to stop water penetration, corrosion, resist dirt, mold, mildew, and pollution. MULTICERAMICS™ will increase the longevity while reducing maintenance on all applicable surfaces.

**PRODUCT
ADVANTAGES:**

- Odorless
- No V.O.C.s
- Class "A" Rated "0" flame spread
- Sound blockage
- Micro packing
- R- Equivalent protection with a 0.007" thickness
- Water proof (Not just water resistant)
- K value (0.05) W/m*K
- 25 Years residential life expectancy
- Resists mold & mildew

TECHNICAL DATA

Percent Solids

Acrylic: By weight 62% ± 0.5%
By volume 68% ± 1%

Finish: Flat (5°-10°)*
*Geometry 60°

Weight / Gallon: 5lbs. per gallon

Viscosity: 110- Ku's

Color: Off white

pH: 8.0 – 9.0

Flash Point: Non-flammable

Drying Time: To touch: 1 hr @70°F

To recoat: 24 hrs
@70°F

Theoretical Coverage: 840 sq./ft. per
gallon @ 1mil

Recommended Coverage:

120 sq./ft. @ 12 mils wet/ 7
mils dry

Thinning:

Do not thin.

Sizes: 3 gallons
1 gallon

Shelve life:

Up to 2 years (unopened) under appropriate conditions. Cures by evaporation

INSTRUCTIONS

Application Method:

SURFACE PREPARATION

It is a good practice to do a qualitative test for salts. If salts are present, use CHLOR*RID as directed.

<http://www.chlorrid.com/home.php>

For new or previously coated concrete, masonry or wood:

- I. Power wash surface at 3,500 psi with a citrus cleaner to remove dirt, oil, tar, grease, contaminants and previous coatings not tightly bonded.
- II. Surface must be completely dry and clean prior to application.
- III. If surface was not previously sealed, apply **EZ Seal Base Primer** as directed.
- IV. Apply **MULTICERAMICS™** directly to the surface.
- V. Note: If existing coating surface is glossed, it must be sanded and roughed before application: no gloss.
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MIXING

MULTICERAMICS™ should be mixed mechanically until fully blended and liquefied before it is applied.

APPLICATION

MULTICERAMICS™ can be applied by brush, roller or spray.

If application is by brush use a soft or medium bristle brush. It will take two coats to achieve the desired thickness when using a brush. If application is by roller use a ¾" nap roller. It will take two coats to achieve the desired thickness when using a roller.

If application is by spray use a standard airless sprayer (3,000 psi capable) adjust pressure slowly until even spray at the lowest possible setting. Use a carbide steel or titanium tip sized between .021 and .025.

ALL FILTERS SHOULD BE REMOVED FROM THE GUN HANDLE AND SPRAY MACHINE PRIOR TO APPLICATION AS THEY WILL TRAP THE CERAMICS.

NOTE: Under no circumstances should **MULTICERAMICS™** ever be applied to a thickness of less than 10-11 mils wet. Never apply directly over rust. Never dilute or thin. If applied over metal surfaces use high grade water based metal primers

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MINIMUM SPREAD RATE:

MULTICERAMICS™ will be applied at no less than at total of 10-11 mils wet/7 to 10 mils dry (100 to 120 sq/ft per gallon).

CURE TIME One hour to touch at 70°F degrees and bright sun. Over-coating time at 70°F degrees is one hour or longer. Fully cures in 7 days.

TEMPERATURE

Apply between 60°F and 100°F degrees. Store between 50°F and 100°F degrees.

previous coatings not tightly bonded. Allow to dry thoroughly.

II. Power wash harsh environments where color is desired or where pooling may occur.

III. APPLICATION OVER METAL SURFACES:

Apply **RUSTVACCINE™** over un-primed steel according to prescribed application instructions and coating thickness.

IV. Allow the **RUSTVACCINE™** to cure for four hours or until dry to the touch.

V. Apply **MULTICERAMICS™** over the **RUSTVACCINE**.

Note: If pack rust, scale or bright glossy surfaces exist, they must be removed by grit blast, power tool or needle gun. Once removed it must be primed with **RUSTVACCINE™**

CLEAN-UP OF EQUIPMENT

After completion spray systems should be cleaned with soap and water. Brushes and rollers can be cleaned with soap and water, stored and reused.

IMPORTANT:

Do not take internally. Avoid contact with eyes. If solution does come in contact with eyes, flush immediately with water and contact a physician for medical attention. Avoid prolonged contact with skin or breathing of spray mist. For quickest removal from skin, wash with water before drying.

KEEP OUT OF REACH OF CHILDREN

LIMITED WARRANTY

Unless a written warranty of fitness for a particular use is provided. Greenworld Structures, LLC & WALLPANEL's sole warranty is that the product, as supplied will meet the current sales specifications and is specific only to return of product found to be defective upon opening of container within one year of purchase. Customer's exclusive remedy and Greenworld Structures, LLC & WALLPANEL, Inc. sole liability for breach of warranty is limited to refund of the purchase price or replacement of any product shown to be other than as warranted and Greenworld Structures, LLC & WALLPANEL, Inc. expressly disclaims any liability for incidental or consequential damages.