

MICROSEAL

Clear Glaze Seal Coat & Graffiti Resistance

Technical Data & Application Instructions

PRODUCT DESCRIPTION

Carrara **MICROSEAL** is a water-based coating is especially formulated to aid dirt and soil repellency of the **Carrara** textured wall-coating system. A very thin coating helps penetrate and seal the textured surface and provide long term water repellency, dirt and graffiti resistance. It is also effective in rejuvenating aged and/or oxidized skylights. Its non-sacrificial characteristics allow removal of graffiti without the need to reseal the cleaned surfaces.

Successful removal of graffiti stains will vary greatly depending on type of graffiti material used, time that passes prior to cleaning and number of times graffiti is removed.

ADVANTAGES

- Facilitates graffiti removal
- Protects against industrial airborne chemicals
- Reduces soil and fume absorption
- Minimizes run-down discoloration
- Non-yellowing
- Prevents moisture staining of surfaces
- Minimizes efflorescence
- Excellent ultraviolet resistance
- Conforms to all VOC regulations
- Reduces spalling and deterioration
- Single package – No shelf or pot life problems
- Water-Based – No flammable solvents
- Long term durability

MicroSeal is a natural penetrating sealer designed to wet into the surface to which it is applied. Surfaces such as glazed brick, smooth dense brick, glass fiber reinforced concrete, and dense, steel-trowelled concrete must be etched or abraded prior to application of **MicroSeal** to allow for maximum penetration.

MicroSeal can be applied over most existing paints or coatings where additional sheen and/or clean-ability is desired. As it will be unable to penetrate into the substrate on these applications, the existing finish must be sound and well adhered, as well as clean and dry.

MicroSeal will protect the substrate against atmospheric deterioration with a clear, semi-gloss film that provides water-repellency and surface sheen without significantly altering the natural color or texture of the substrate.



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Our data and suggestions are based on information from laboratory and field testing which we believe to be reliable. Because methods of application vary with each situation, we cannot guarantee or accept any liability resulting from the use of our products. Avoid contact with eyes and skin. For additional information on MicroSeal, refer to OSHA guidelines and Material Data Safety Sheet.

ESTIMATED COVERAGE RATES*

<u>Substrate</u>	<u>Est. F2/Gallon</u>
Concrete	125 to 150 (3.0 to 3.9 m ² /l)
Exposed Aggregate	75 to 100 (1.8 to 2.4 m ² /l)
Brick, Stone	125 to 150 (3.0 to 3.9 m ² /l)
Stucco	60 to 75(1.4 to 1.8 m ² /l)
Existing Coating	150 to 250 (3.9 to 6.1 m ² /l)

* These estimates are totals for two separate applications. Apply approximately half the total number of gallons in each of the two coats. The above absorption (coverage) rates are provided for estimating purposes only. Coverage rates will vary with texture and porosity of the substrate. Allow for additional material when estimating coverage over highly textured or porous surfaces.

GRAFFITI RESISTANCE TABLE

<u>Staining Agent</u>	<u>Cleaning Solution</u>	<u>Result</u>	<u>Finish Condition</u>
Spray Paint (Red)	M.E.K. Solvent	Stain was removed	Finish was retained
Spray Paint (Red)	Lacquer Thinner	Stain was removed	Finish was retained
Ink Marker (Blue)	M.E.K. Solvent	Stain was removed	Finish was retained
Ink Marker (Blue)	Lacquer Thinner	Stain was removed	Finish was retained

When tested in accordance with ASTM D6578-00 Section 9, both spray paint and ink marker were easily removed from MicroSeal. No noticeable change in sheen or appearance was observed using ketone based cleaning solvents (M.E.K., Lacquer Thinner and most commercially available graffiti cleaning materials).

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, fully cured, and free of dirt, dust, oil, curing or form release agents, efflorescence, scale, or other contaminants that could inhibit optimum adhesion. Existing coatings that are loose, cracked or peeling must be completely removed. When applying over any Carrara finish coat, apply **MicroSeal** immediately after application of the Texture coating. If the Textured coating has been allowed to soil, clean with a detergent (like Simple Green®) rinse thoroughly and allow to dry.

It is recommended that a sample test area be applied, and approval be obtained, prior to any general application of the material. **MicroSeal** may bring out the natural color of the particular concrete or masonry surface being sealed, resulting in a darkened appearance, as if wetted. Apply the test area on an inconspicuous area of the actual building to determine the optimum coverage rate to achieve uniformity of sheen, as well as to determine the suitability of the application technique.

APPLICATION

Apply with brush, roller or airless spray at the above estimated coverage rate of the substrate rate. Additional coats will bring out sheen or gloss to the surface.



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For maximum production on large projects, airless spray equipment capable of 2,000 psi (13,780 kPa) and 1 gallon per minute (3.8 l/minute) delivery should be used. A reversible self-cleaning spray tip with orifice size of .013" to .017" (.330 to .425 mm) and minimum 40 degree fan angle is recommended.

Apply **MicroSeal** in two separate coats except where a single application gives the desired surface finish. Spray or brush each application in a uniform horizontal direction, followed by a uniform overlapping vertical direction. Hold the spray gun not more than 18" (45 cm) from surface. Avoid runs or sags. Thinning should not be necessary when applying over exposed aggregate or other similar surfaces.

Over dense substrates **MicroSeal** may be reduced with clean water to achieve the desired consistency for adequate penetration. Other restoration work and caulking should be completed prior to application. Most standard caulking compounds are compatible with surfaces previously treated with **MicroSeal**, however, field testing should be performed for confirmation.

CLEAN-UP

Clean pump, tools and other equipment with fresh water. Flush water from the pump and hoses with Mineral Spirits for storage.

LIMITATIONS & PRECAUTIONS

MicroSeal should not be applied over wet surfaces or wood substrates, however, concrete and masonry surfaces can be coated while slightly damp. In locations that are typically hot and arid, it can be beneficial to pre-dampen the surface prior to the application of the **MicroSeal**.

MICROSEAL will freeze and become unusable at temperatures below 32° F (0° C). Do not ship or store without protection from freezing temperatures. Do not apply at ambient temperatures below 50° F (10° C) or surface temperatures below 40° F (4.4° C) or if rain is expected. Cool temperatures and high humidity will retard drying time. Close container after each use.

Avoid breathing of vapor or spray mist. Approved (MSHA/NIOSH) chemical cartridge respirator should be worn by applicator. For additional information on safety requirements, refer to OSHA guidelines and **MicroSeal** Material Safety Data Sheet.



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