

PRODUCT DESCRIPTION AND USES

MICROCRETE Concentrate is a solvent free, 100% active solid, oligomeric Alkylalkoxysiloxane repellent concentrate. Site mixed with clean water, *MICROCRETE* self emulsifies to form a high performance and deep penetrating, alkali resistant water repellent emulsion. When applied, *MICROCRETE* forms a short-chain water repellent barrier deep within the masonry surface. *MICROCRETE* contains our exclusive Micro-Lok® formulation to ensure a durable long lasting bond.

This hydrophobic barrier displaces water yet remains highly vapor permeable and allows moisture to escape. *MICROCRETE* performance is not affected by weathering, UV light or wind driven rain. *MICROCRETE* is V.O.C. compliant.

MICROCRETE is recommended for use on vertical and horizontal, porous and dense masonry, concrete and EFIS surfaces. It protects surfaces from damage caused by water intrusion and seepage, chloride ion intrusion, cracking caused by freeze/thaw cycles, spalling, scaling and helps prevent efflorescence and lime run. It is highly recommended for use on lightweight block. Application may slightly darken some surfaces.

HOW TO USE

New masonry and concrete surfaces shall be allowed to cure for 28 days to neutralize alkalinity and release residual moisture. All surfaces to be coated shall be structurally sound, clean and dry free of laitance, accumulated dirt and grime, efflorescence, lime run, form oils and release agents, grease, mud, excess mortar and mold and mildew, etc. Use high-pressure water if wet cleaning is necessary and allow adequate (3-5 days) drying time to assure uniform penetration of the water repellent. On previously painted surfaces, remove existing paint or coatings.

MICROCRETE is best and most economically applied using low-pressure commercial airless spray equipment.

Recommended Tip Sizes:

Porous Surfaces: .050 to .110

Dense Surfaces: .037 to .60

Using clean plastic containers. Site-mix *MICROCRETE* with clean, cool, potable water in ratios as noted. Mix contents well. Mixed solution will be milky white. *Caution: Wear eye protection, approved respirator and protective clothing. Clean spilled materials using a clean damp cloth.*

General Mixing Ratios:

Porous Vertical Surfaces:

CMU, Split Face CMU, Blasted CMU, Ribbed CMU, Slump Block

9:1 (9 gallons water: 1 gallon *MICROCRETE*)

Dense Vertical Surfaces:

Fired Clay Brick, Tile, Pre-Cast Panels, Pre-Cast Aggregate, Cast in Place, Slate, Stone

19:1 (19 gallons water: 1 gallon *MICROCRETE*)

Semi-Porous Surfaces:

Stucco, EFIS Pavers, Sandstone, Adobe

14:1 (14 gallons water: 1 gallon *MICROCRETE*)

Horizontal Surfaces:

14:1 (14 gallons water: 1 gallon *MICROCRETE*)

Government SS-W-110C Specification:

9:1 (9 gallons water: 1 gallon *MICROCRETE*)

Highway NCHRP Specification:

5:1 (5 gallons water: 1 gallon *MICROCRETE*)

General Application: Use commercial airless equipment set at low pressures. Avoid application in windy weather. In hot weather, lightly dampen surfaces with clean fresh water to avoid premature drying which may cause material flash cure. Trigger gun off at the end of each pass to avoid using excessive materials. Stop all applications only at corners, joints, seams or edges. Actual coverage rates will vary depending on the porosity of the surface. Always apply material to test panel prior to general application. *Notes: Some surfaces may require a second coat. Where required, apply second coat while the first is still damp or wet. Apply second coat at a rate equal to one and one half times of the first coat. Caution:*

Technical Data

Applications:

Dense Masonry

Cast Concrete

Vertical Surfaces

Horizontal Surfaces

Porous Surfaces

Features and Benefits:

- For use on a vertical and horizontal masonry, brick, concrete and stucco surfaces
- *High performance* water repellent
- Deep penetrating short chain polymer water repellent
- Easy to mix and apply
- Protection not effected by weathering or UV light
- Resistant to high alkalinity
- V.O.C. compliant
- Maintenance free
- Breathable and moisture vapor permeable
- Warranty available

