Technical Data Sheet

1. PRODUCT NAME

PROFLEX™ Roof Sealer

100% Elastomeric Ceramic Fiber Sealer

2. DISTRIBUTOR

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3. PRODUCT DESCRIPTION

PROFLEX™ is an elastomeric, hydrophobic, heat insulating, fiber reinforced "COOL ROOF", high performance waterproofing membrane sealer. It saves energy and has outstanding adhesion to many substrates with or without the use of primers. It is resistant to expansion/contraction stresses; to UV radiation, mildew, fungus, algae growths, and 100% weather proof for tropical climates.

PROFLEX™ FCRS is a single component, high solids liquid applied roof waterproofing sealer based on hydrophilic elastomeric polymers. It is formulated to pass high quality ASTM standards for waterproof roof coating systems. Product applies light blue and dries to an ultra white reflective finish.

PROFLEX™ is extremely durable, has an excellent tight adhesion on any surface, long-term flexibility and is specially formulated to minimize dirt pickup for long lasting reflectivity. This product can resist ponded water for 10 days and is specially formulated to protect and seal roofs and walls in humid tropical climates.

PROFLEX™ provides an elastic, fiber ceramic reinforced membrane-topcoat that will span, bridge and seal cracks and fissures in concrete roofs. It stops and prevents leaks created by ambient temperature changes, settlement or structural movement in concrete and other rigid substrates if applied at the specified dry mils thickness.

PROFLEX™FCRS forms a tough, watertight, ultra white, thick built-up, reinforced, flexible, seamless, impervious membrane ideal to protect residential, industrial and commercial roof surfaces of concrete, masonry, stucco, mortar, aged galvanized steel, asphalt, tar, cement board, wood, painted metal, brick, plywood, spray foam and asphalt roofing.

The product's dries very fast and the **ultra white** finish reflects the sun rays to maintain the roof at ambient temperature. This reduces the ceiling interior temperature refreshing the building inside, improving the efficiency of air conditioning units and reducing electrical energy costs.

4. PHYSICAL PROPERTIES

Density: 11.3 ± 0.2 lbs/gallon.
Viscosity: 105 ± 5 KU at 70 ºF.
Percent Solids $_w$: 60.0 ± 0.5 % (weight).
Percent Solids $_v$: 50.0 ± 2.0 % (volume).
Tensile Strength: 250 psi - ASTM D 412.
Permeability: 40.0 perms (25 mils ASTM E96).
Elongation: 200 - 250 % (ASTM D 2370).
VOC Content: Less than 30 g/L.
DRY PEEL ADHESION: To Concrete: 25 pli
To DuroSeal™ Membrane: 30 pli
To ElastoAcryl™ Primer: 25 pli
AVERAGE CURE TIME:
(Variable depending on %RH and Temperature.)
Recoat time: 2 to 12 hours.
Set Cure time: 2 to 24 hours.
Final cure: 48 to 72 hours.
Compliance: Meets ASTM Standards.

5. MATERIAL INFORMATION

Standard Colors: Snow White and Gray.
Packaging: 1 and 5 gals Pail (3.7 - 19 Liters).
Mix ratio: One component material.
Composition: Water Based Elastic Fiber-Ceramic Sealer with Hydrophobic Polymer Technology.
Cleanup: Tap water and soap.

6. NET COVERAGE AND YIELDS

10 mils dry film: 75 ft²/USgal (7.2 m²/Gal)
20 mils dry film: 38 ft²/USgal (3.5 m²/Gal)
30 mils dry film: 26 ft²/USgal (2.4 m²/Gal)

7. CAUTIONS AND WARNINGS

Keep out the reach of children. Could be harmful if swallowed. Do not induce vomiting. Call physician immediately. Use in well ventilated areas. Not recommended for direct contact or collection of potable or drinking water. Read MSDS before use.

INSTRUCTIONS FOR USE:

1. The concrete roof surface must be clean, structurally sound, smooth (CSP≤4), free of dust, dirt, fungi, other foreign substances and delaminations. Concrete roofs defects such as; ponded water, bugholes, cracks, penetrations must be repaired; and all roof detailing must be completed before the primer or sealer is applied. For chalky concrete substrates and areas with severe humidity problems, the application of the products Primer-Plus™ or ElastoAcryl™ as penetrating primers is required over the clean and dry roof/wall surface. PROFLEX™ can also be applied as a topcoat over other Bull-Bond® elastomeric membranes systems, like the GreenSeal™, DuroSeal™ membranes and other waterproofing systems to protect them from UV degradation for re-roofing work or rehabilitation of damaged roofs. **Do not apply on roofs used to collect drinking water for human or animal use. Do not apply on areas with hydrostatic pressure or for negative side waterproofing projects.**

2. Stir the product for a few minutes before use. PROFLEX™ Fiber Ceramic Roofing System™ (FCRS) can be applied with brush, roller, soft broom or airless spray to obtain a smooth and uniform film. Coverage will depend upon the nature, porosity, condition of the substrate and desired cure speed. For normal conditions, an application rate of 75 square feet per gallon results in a dry film thickness of 10 mils per coat. Thicker films can be spray applied up to a maximum coverage rate of 50 square feet per gallon per application. **Caution: Roof sealer films can be very slippery when wet. Always use safety lanyards and perimeter barriers in all roof work and roof inspections.**

3. The recommended minimum dry film thickness for roofing applications is 25-45 mils (0.60–1.1mm). For protecting urethane foam systems a minimum DFT of 30-50 mils is suggested. Two or more applications of PROFLEX™FCRS are mandatory for optimum water resistance and crack bridging performance in roof work. Minimum recoat drying period is two (2) hours. The second and or subsequent coats must be applied in a crosshatch pattern over the dry base coat(s). Thicker films take longer to dry thoroughly; therefore multiple thin costs are preferred.

4. Wash brushes, rollers and spray equipment promptly with warm soapy water. No organic solvents are needed. For spray equipment a final flushing with mineral spirits is recommended to prevent corrosion of interior metal parts.

5. Close container tightly to maintain product in good conditions. Drying time and final cure are affected by temperature, humidity and applied roof sealer film thickness. Do not apply product below 50 ºF or above 105 ºF, after 3:00 PM, with a RH>90%, or if rain is forecasted. This will assure proper sealer film drying/curing conditions and avert product washout with rains.

6. Rainfall or excess moisture before complete cure can cause blistering and moisture entrapment in the PROFLEX™ FCRS film. Do not apply product if rain is forecasted or eminent. Avoid painting late in the afternoon to prevent condensation on the uncured product film and to prevent product washout or film damage due to unexpected rainfall.

SPRAY APPLICATION EQUIPMENT SUGGESTION

Standard airless spray equipment for application of PROFLEX™ FCRS should have correct filter sizing and be equipped with the minimum pump, tip and hose sizes recommended below:

Pump Ratio: 30:1
Tip Size: 0.040 to 0.060 inch
Fan Angle: 60 to 80 degrees
Hose Diameter: ⅜” diameter. Pressure rated to 4,000 psi. Chemical resistant plastic.

(FCRS = FIBER-CERAMIC ROOFING SYSTEM)

Revision: Sept 30, 2013