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Eraguard 4000 Silicone Coating

Product Data Specification

TYPICAL PHYSICAL PROPERTIES

Solids (Volume)	62%
Solids (Weight)	77%
Elongation	125%
Tensile Strength	400 psi
Shelf Stability	8 months
Specific Gravity	1.23
Permeability	2.9 US Perms
Shore A Hardness	43
Weathering (Atlas Twin Arc)	No effect in excess 4000 hrs
Cure (75°F/45% RH)	
Tack Free	20 minutes
To re-coat	3.5 hours
VOC	300 g/L

DESCRIPTION

Eraguard 4000 is a silicone based elastomeric coating that provides exceptional weathering characteristics and exhibits a long-term ability to resist ozone and harsh chemicals. Flexibility is retained in extreme temperature ranges. Water will not penetrate the Eraguard 4000 silicone elastomeric membrane. The Eraguard 4000 is a breathable membrane, allowing moisture vapors to escape, thus eliminating the problem of moisture entrapment in the substrate.

USES

Eraguard 4000 is a silicone rubber coating that is utilized as a spray-applied protective coating for polyurethane spray foam insulation for either new construction or re-roofing projects.

COLORS

Available in light gray, dark gray, and white.

PACKAGING

Packaging is standard in 55 gallon drums (50 gallon fill).

APPLICATION EQUIPMENT

Application may be by brush, roller or airless spray.

Brush or Roller: Recommended for small or inaccessible areas, for roof perimeter, flashings, etc. A paint brush and coarse medium nap solvent resistant roller works best.

Airless Spray Equipment: Airless Spray Equipment should be capable of producing a material output of 3 gallons per minute at 3500 p.s.i. Eraguard 4000 is designated a "medium elastomeric coating" of medium viscosity for pump purposes. 1/2" - 3/4" high pressure hoses work well. A minimum of 3500 p.s.i. is required at the spray gun to achieve the desired spray pattern. The airless spray gun should be equipped with a ball-bearing swivel for ease of handling. Recommended orifice size is .025" to .035" diameter, wide-angle fan pattern. A reverse-a-clean nozzle is recommended. Exact orifice size will vary with temperature of the material and weather conditions.

APPLICATION

General Application: All surfaces to be coated must be clean, dry, and free of contaminants, such as dirt, oil, grease, loose coatings or debris. Power wash is typically required to remove contaminants. If Eraguard 4000 is to be applied over previously coated polyurethane foam an adhesion test must be done to ensure adequate adhesion will occur.

Adhesion of Eraguard 4000 to the substrate should always be checked. Apply 6-12" square of Eraguard 4000 and embed a piece of PolySoft II fabric into the coating, leaving a tail of the fabric exposed. Allow a minimum of 1 day for the Eraguard 4000 to cure and perform a 90° pull test of the fabric tail to test adhesion of the coating to the substrate.

Eraguard 4000 shall be applied in a minimum of two coats. The first coat of 1 ½ gallon per square may be backrolled and allowed to cure 2-4 hours

(74° F., 45% R.H.). The second coat, applied perpendicular to the first coat shall be applied at 1 - 1 1/2 gallons per SQ depending on surface texture and performance objectives.

The Eraguard 4000 must cover all foam surfaces completely including foam flashings. 2.0 gallons per SQ produces 20 dry mil average thickness. 2.5 gal/SQ will typically provide 20 dry mil minimum thickness.

Roofing granules may be embedded into the surface coat of Eraguard 4000. 30 - 35 pounds of Number 11 Ceramic Roofing Granules may be evenly distributed in a tack coat of 1/2 gallon per SQ of Eraguard 4000.

Always stir Eraguard 4000 just prior to use to ensure a uniform mixture. Application with spray equipment may require some masking and potential erection of wind screens to prevent over-spray and drift damage.

CURING & RE-COAT

Eraguard 4000 cures rapidly when exposed to air, moisture and heat. Re-coat may often occur in 2 - 4 hours under ordinary drying conditions.

LIMITATION

- Do not apply Eraguard 4000 during inclement weather and do not proceed if precipitation is imminent.
- Thinning Eraguard 4000 is not recommended.
- If containers are left open or resealed Eraguard 4000 may skin over. Remove the skin, mix thoroughly. A layer of Saran Wrap placed on the coating surface will reduce skinning.

TEMPERATURE CONSTRAINTS

Do not apply Eraguard 4000 at temperatures below 50° F. The substrate temperature range for application is 40°F – 120°F.

CLEAN-UP

MEK and Naphtha solvents or Mineral Spirits can be used to clean and remove uncured material. Cured silicone is difficult to remove without damaging or altering the surface to which it is

applied.

STORAGE AND HANDLING

When stored in the original, unopened container at temperatures less than 90°F., Eraguard 4000 has a shelf life of 1 year. After a container has been opened, cured material may form. This is easily removed and does not affect the remaining contents.

CAUTION!!!!

Eraguard 4000 is manufactured and marketed for industrial use only. Uncured coating will irritate the eyes. In case of contact with eyes, flush with water for 15 minutes and consult a physician. The uncured coating may also irritate the skin. Prompt removal by wiping with a dry cloth or paper towel, and washing the skin with soap and water is recommended.

Avoid breathing solvent vapors and use an appropriate MESA/NIOSH certified respirator. This material is *NOT* recommended for interior application. Protect HVAC equipment from solvent vapor distributions through the building.

The flow of material through pump and system could create static electricity. When pumping flammable materials, all equipment must be properly grounded to prevent static discharge and sparking, which could cause fire or explosions. Use only conductive or grounded air and material hoses, and be sure that compressor and pump are properly grounded per manufacturer's recommendations.

WARRANTY

IMPORTANT: While the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.

ERSystems' sole warranty is that the product will meet the sales specification at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

PRIOR TO USE OF THIS MATERIAL, READ ALL APPROPRIATE MATERIAL SAFETY DATA SHEETS.