

Technical Data Sheet

EcoCoolRoof® Dirtyguard

High Solar Reflective Cool Wall Coating for External Walls



Urban Solution Korea Co., Ltd



EcoCoolRoof® Dirtyguard originally designed to offer high solar reflective cool wall coating for external concrete walls. However, it can also be used in woods, bricks, metals, smooth granite, sandwich panels etc. Please consult your technical sales representative for more detailed information in usage.

PREFERRED USES

- ▶ Heat Reflective Exterior Cool Wall Project
- ▶ Excellent Dirt pick up resistance.
- ▶ Excellent adhesion to existing coating surfaces
- ▶ It can be applied in woods, bricks, metals, sandwich panels etc.
- ▶ It can also be used as a protective coating on top of EcoCoolRoof® coated surface in the roofs.

PHYSICAL PROPERTIES

EcoCoolRoof® Dirtyguard	
Standard Color	White
VOC	< 40 g/L
Cover- up Rate	97 %
SR (Standard color)	86.5 %
Pb,Cd,Hg,Cr ⁶⁺	Not found
Washability	1,000 above
Density	11.7 lb/gal
45°,0° Extended Reflectivity	91%

EcoCoolRoof® Dirtyguard comes in a vast assortment of colors. Consult with your Urban Solution Korea Co.,Ltd Technical Sales Representative about color preference.

PRODUCT DESCRIPTION

EcoCoolRoof® Dirtyguard is a CHMA siliconized acrylic based high solar reflective wall coating product for external wall surfaces. Toning pigments are chemically suspended in the acrylic resins, thus eliminating settling and color variations on the structure. This product has been specially developed for high solar reflective Cool Wall Coating projects on concrete wall surfaces but it can also be used in wood, bricks, metals, smooth granite, sandwich panels etc.

ADVANTAGES & BENEFITS

- ▶ High solar reflectance help combat Urban Heat Islands Effect
- ▶ Excellent Dirt Pickup Resistance
- ▶ UV Resistant and durable, will not peel or crack
- ▶ Excellent adhesion
- ▶ U.V resistant
- ▶ Extra Durability
- ▶ Extensive Color capabilities
- ▶ Low VOCs & VACs
- ▶ Mold/algae Resistant
- ▶ Low toxicity formulation is safe to use
- ▶ No Special equipment required

COVERAGE RATES & DRY TIME

Coverage rates and dry time will be affected by ambient temperatures, humidity, and porosity of the substrate. Product allowance should be considered with varying profiles, textures, and loss/waste.

Apply EcoCoolRoof® Dirtyguard at a rate of 0.4 liter per square meter per coat. It is recommended two coats in minimum.

SAFETY AND HANDLING

Please refer to the individual Material Safety Data Sheet for information on handling of this material.

CLEAN UP

Thoroughly rinse with clean water.

EXECUTION

SURFACE PREPARATION

Surface must be clean of any laitance material, free of any dirt, grease, oils, chemicals, and particles that may cause adverse effects for maximum adhesion to the substrate. Clean with compressed air, power sweeping, pressure washing, and in some cases power grinding may be required. Allow substrate to dry before application.

Cracks wider than 1/16" (1.5875 mm) should be filled and repaired by industrial caulk. New concrete surfaces should be allowed to cure for at least 28 days before applying Cool Wall Coating.

APPLICATION

PRIMING

Apply one coat of MC Primer to dry surface. Allow sufficient time to dry.

APPLICATION

Apply EcoCoolRoof® Dirtyguard by brush, roller or airless sprayer to the wall surface. Apply first coat at a rate of 0.2 liter per square meter. Apply 2nd coat at the same rate. We recommend minimum of two coats (Approx. 0.4L/m²)

PACKAGING & SHELF LIFE

EcoCoolRoof® Dirtyguard is packaged in 18.9L pails (5 US gal) with a shelf life of 24 months when unopened and stored at max 32°C, min 10°C. Keep from freezing.

LIMITATIONS & PRECAUTIONS

EcoCoolRoof® Dirtyguard is a water based environmentally friendly product that will be subject to freezing when temp. are below 0°C. Do not apply EcoCoolRoof® Dirtyguard if rain, dew, snow, or if temperatures fall below 0°C. Furthermore, do not apply if any climatic conditions prevent full cure of the coating surfaces during the recommended curing period.



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