

SUNSHIELD™ CLEAN COAT 3800

Technical Data Sheet | Ultra-Reflective Acrylic Top Coat



TECHNICAL PRODUCT DATA

100% ACRYLIC | WATER-BASED | LOW VOC <50 g/L | AIR-DRY

PRODUCT CHARACTERISTICS

Sunshield™ Clean Coat 3800 is a pure 100% acrylic emulsion latex coating that creates a hard, abrasion-resistant film while remaining flexible enough to move with an elastomeric undercoat. It is designed as an ultra-durable top coat over properly prepared roof, wall, deck, masonry, stucco, concrete, drywall, metal, wood, asphalt shingle, and mineral-surface cap sheet systems. Its high reflectance, hardness, dirt resistance, and UV resilience support a durable, long-term clean appearance.

KEY BENEFITS

- Dramatically reduces cooling costs and maximizes solar panel power production.
- Ultra-reflective, durable clean top coat with high spray coverage and fast dry time.
- Light weight; install over existing roof systems; blocks UV; provides more reflectance; considered maintenance.
- Hard, dirt-resistant surface helps resist microbial growth and maintain a long-term clean appearance.

ENVIRONMENTAL BENEFITS

Sunshield™ 3800 is water-based for easy cleanup and low odor. It contains low VOCs, requires few anti-microbial additives because of its hardness, contains no zinc additives, and has a low erosion rate that contributes to cleaner wastewater and healthier air.

MANUFACTURER INFORMATION

Davlin Coatings LLC
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Made in the USA | Designed by Davlin in California
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ULTRA-REFLECTIVE | DIRT-RESISTANT | WATER-BASED

Creates a durable, ultra-reflective clean top coat over existing building surfaces

PRODUCT OVERVIEW

Sunshield™ Clean Coat 3800 is a pure 100% acrylic emulsion latex coating formulated as an ultra-durable top coat over elastomeric roof, wall, and deck coatings and other properly prepared building surfaces. Its hard, abrasion-resistant film remains flexible enough to move with an elastomeric undercoat and better resists dirt pickup and mildew growth.

The coating contains high levels of reflective Titanium Dioxide pigment and is engineered for high solar reflectance, durable weathering performance, and clean appearance.

SUITABLE SUBSTRATES

UltraRoof™ 510

UltraRoof™ 900

Capseal™ 800

Capsheet

Mineral BUR

Gran. Asphaltic

Low-Reflect. Acryl.

Primed Asphaltic

Tile/Conc./Pavers

Acrylic™ 490/600

40%±2

SOLIDS BY VOLUME

<50 g/L

VOC

98%

CIGS REFLECT.

0.88

SOLAR REFLECT.

0.90

THERMAL EMITT.

105

3-YEAR SRI

ULTRA-REFLECTIVE CLEAN TOP COAT | CIGS REFLECTANCE 98% INITIAL
3-YEAR SRI 105 | DIRT PICKUP RESISTANCE 95%

APPLICATION EQUIPMENT

Equipment changes in pressure and tip size may be needed for proper spray characteristics.

- Airless: Standard equipment such as a Graco Series 600. Tip sizes from 0.018-0.021.
- Conventional: Industrial equipment such as DeVilbiss MBC or JGA spray gun. Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply lines are recommended.
- Brush or Roller: Suitable for waterborne coating. Surfaces must be clean and free from contaminants, including dirt, release agents, wax, mildew, and salt deposits.

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PROPERTIES / SPECIFICATIONS*

Property	Test Method	Typical Value
Volatile organic compounds	US EPA Reference Method 24	<50 g/L
Tukon hardness	-	1.2
Flash point	SETA	>215°F
Viscosity (Stormer K.U.)	ASTM D562	70-80 KU
Solids by volume	ASTM D2597	40% ± 2
Solids by weight	ASTM D2369	54% ± 2
Dry film thickness (DFT)	-	6.4 mils @ 100 ft ² /gal
Recommended system DFT	-	3-10 mils top coat
Components	-	1
Curing mechanism	-	Air dry
Clean up	-	Water
Shelf life	-	1 year if properly stored
Weight	-	11 lbs/gal
Packaging	-	1, 5, 55, 275 gal
Availability	-	Shipped nationally & internationally
Drying time to re-coat	-	1-2 hours dry hard @ 70°F (21°C)
Application temperature (air and surface)	-	50-100°F (10-38°C)
Color	-	White, Grey, Beige or Custom
Solar reflectance (White)	ASTM E903	0.88
Thermal emittance	ASTM C1371	0.90
3-year SRI	ASTM E1980	105
CIGS reflectance (White)	ASTM E903	98%
3-year CIGS reflectance (White)	ASTM E903 / CRRC 3-Year, calculated	93%
Dirt pickup resistance	CRRC 3-Year Reflectance	95%

SPECIFICATION NOTES

* Typical values shown are based on laboratory testing and field evaluation. The information, ratings, and opinions stated are believed to be accurate; however, the user is responsible for determining whether the product is suitable for the intended application. Consult Davlin Coatings for project-specific guidance.



INSTALLATION / APPLICATION NOTES

WEATHER RESTRICTIONS

Do not use Sunshield™ 3800 on surfaces subject to hot tires or that are constantly under water. Do not apply during, or within 24 hours preceding, rain, fog, mist, freezing temperatures, or other inclement weather. Air and surface temperatures must be above 50°F and remain at or above 50°F for at least 4 hours after application. Keep material from freezing.

SURFACE PREPARATION

All surfaces must be clean and free from dirt, release agents, wax, mildew, salt deposits, and other contaminants. Sunshield™ 3800 is designed for use over properly prepared elastomeric roof, wall, and deck coatings and compatible building surfaces.

MIXING PROCEDURES

Flush all equipment with water before use. Stir Sunshield™ Clean Coat 3800 thoroughly until uniformly blended, but avoid excessive mixing to prevent air entrapment. Thinning is not recommended.

COLOR / TOPCOAT NOTES

Colors: White, Grey, Beige, or Custom. Sunshield™ 3800 forms a hard, abrasion-resistant film that remains flexible enough to move with an elastomeric undercoat. Its hardness helps resist dirt pickup and mildew growth, making it well suited as a clean top coat over elastomeric systems.

APPLICATION PROCEDURES

Apply a wet coat in even, parallel passes, overlapping each pass approximately 50% to avoid holidays, bare areas, and pinholes. The coating may be sprayed, rolled, or brushed. At 75°F and 50% relative humidity, drying time is approximately 1-2 hours to dry hard; full cure is approximately 2 weeks. Use only over clean, properly prepared surfaces.

SAFETY / REFLECTANCE NOTES

Sunshield™ 3800 has extremely high sunlight reflectance. Wear tinted sunglasses that filter ultraviolet light when servicing highly reflective roof surfaces. Roofing and solar technicians should wear appropriate clothing and sunscreen to protect skin from direct and reflected sunlight. The coating is ultra-reflective in the 300-1200 nm CIGS photovoltaic spectrum and is engineered to reduce UV exposure to photovoltaic hardware.

CLEANUP

Clean equipment with water or water and detergent immediately after use. Suitable equipment from other manufacturers may be used; adjust pressure and tip size as needed for proper spray characteristics.

DAVLIN SUNSHIELD™ CLEAN COAT 3800

Ultra-reflective acrylic top coat

The information, ratings and opinions stated above are, to the best of our knowledge, accurate, representing the results of laboratory and field evaluation. It is the responsibility of the user to determine whether the product is suitable for the application.