

SHIELD PRODUCTS

PRODUCT DATA

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SHIELD ROOF COATING Reflective White 50900

VOC COMPLIANT

PRODUCT DESCRIPTION

A smooth-textured acrylic roof coating with superior flexibility and elongation to expand and contract with roof surfaces. Lead, chromate, mercury and asbestos free. Low VOC.

TYPICAL USES

Offers excellent protection with a thick, rubber-like coating for most types of roofs. Can be used on aluminum, weathered galvanized metal, wood, asphalt shingles, built-up roofs, urethane foam, concrete, well bonded gravel roofs and cement tiles.

PRODUCT ADVANTAGES

SHIELD ROOF COATING is formulated to offer superior weatherability and durability even in cold temperatures. The extreme brightness of the coating reflects the rays of the sun, dramatically reducing roof temperatures and saving on air conditioning costs. Offers superior flexibility and elongation to allow for expansion and contraction. Contains a very effective mildewcide to resist mildew growth on the coating. Easy to apply, low odor and fast drying. Low VOC. Lead, mercury and chromate free. Contains no asbestos.

COLORS

Reflective White. Special colors available subject to minimum order.

GLOSS

Low sheen

PHYSICAL CONSTANTS

Nonvolatile . By weight - 65.7 ± 1.0%
By volume - 49.1 ± 1.0%

VOC (Calculated) . 0.6 lbs./gal.
71 grams/liter

Flash Point .>250°F (Setaflash)

Weight per gallon - 12.0 ± 0.2 lbs.

Light Reflectance Value - 92

Elongation .300% @ 75°F, 275% @ 32°F, 150% @ 0°F

Tensile Strength .200 psi @ 75°F, 365 psi @ 32°F, 815 psi @ 0°F

Flexibility (ASTM D1737) .passes, 1/8 inch mandrel

APPLICATION

Recommended Film Thickness Two coats for a total of 15-20 mils dry

Theoretical Coverage @ 15 mils dry .50 sq. ft./gal.

Method .Brush, roll, airless spray

Thinner - Water

Dry time @ 75°F -

To touch	1 hour
To handle	3 - 4 hours
To recoat	24 hours

SHIPPING & STORA GE

Consists of . 1 Gallon Unit 5 Gallon Unit

Unit Shipping Weight 13 lbs 63 lbs

Shelf Life .12 months minimum from date of manufacture when maintained in protected storage @ 40-100°F (subject to reinspection thereafter).

APPLICATION INSTRUCTIONS

Consult your Shield Products Representative for the protective coating system best suited for your requirements.

Limitations: Apply in good weather when air and surface temperature are above 50 F and surface temperature is at least 5 F above the dew point. For optimum application properties, material should be between 70 to 100 F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40 - 100°F. Not for use below grade or in areas where ponding water occurs. To achieve a waterproof system, the film must be free of pinholes. PROTECT FROM FREEZING. FOR EXTERIOR USE ONLY. Do not apply in direct sun or on hot surfaces. Do not apply to uncured wood or masonry. May be applied to damp but not wet surfaces. Do not apply late in the afternoon or when there is a threat of rain or moisture condensing on the uncured paint.

NOTE: A dry film thickness of less than 10 mils will not offer proper protection.

Surface Preparation: Good surface preparation is essential to a satisfactory coating system. Trapped internal moisture is the main cause of blistering paint. Vent and dry problem areas prior to painting. Surfaces to be coated should be clean and dry. Remove all dirt, dust, oil, grease, mildew, rust, loose or cracked paint or other contamination. Remove mildew by scrubbing with a solution of 3 tablespoons of non-ammoniated dry household laundry detergent and 1 quart hypochlorite bleach in 1 gallon of warm water. Protective gloves, clothing and goggles should be worn when using this solution to avoid skin and eye irritation. Quickly wash off any of the solution that touches your skin. After scrubbing, rinse thoroughly with water and allow to dry. Tighten or replace any loose screws or fasteners. Areas where ponding water may occur must be corrected by installing roof drains or other protective measures to eliminate water build up.

Metal Roofs .Remove rust and spot prime with 4001 Metal Cleaner. All exposed ferrous metals should be primed with Primer,. Remove oils from galvanized metal and allow to weather a minimum of 24 hours.

Shingle Roofs .Replace any loose or curling shingles. New shingles should set so that the adhesive tabs have set.

Urethane Foam .Foam should be coated as soon as possible after installation to prevent deterioration of the surface. Remove any loosely adhering material. Repair cracks with Patching Cement.

Built-Up Roofs .Repair any cracks and blisters with Patching Cement. Blisters should be cut open and allowed to dry out completely. Severe blistering may require proper repairs before coating.

Concrete .Small cracks should be filled with Patching Cement. Larger cracks and deteriorated areas should be repaired with cement before coating. Chemical compounds, curing agents, surface hardeners, efflorescence or other contaminants should be removed by sand blasting or other effective means.

Previously Painted Surfaces: Repair all damaged areas.

Remove loose and badly cracked paint by wire brushing, scraping, sanding or other method to provide a sound surface. Sand smooth all rough areas and feather edge areas of peeled coatings. Remove gloss from previous coatings by sanding. Spot prime all bare areas as in new work above. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

Tinting: Pastel colors can be made by the addition of up to 4 ounces of Colorant to coating. Special colors can be made to order. High speed shakers should be avoided when tinting to prevent air entrapment in the liquid coating.

Mixing: This is a one component coating. Always mix thoroughly with a power agitator before application. Do not whip air into coating during mixing.

Thinning: This product is supplied at normal brushing viscosity. Thinning is not recommended for proper film build and performance. If thinning is necessary to adjust for unusual conditions thin sparingly with water.

Application: Airless spray is the preferred method of application. Product may be rolled but multiple coats may be required to achieve recommended film thickness. Airless spray application to porous or rough surfaces may require backrolling to insure that the elastomeric coating contacts and wets out the substrate, allowing full contact for proper adhesion and waterproofing characteristics. Apply at 15 mils minimum wet film thickness per coat which will yield 7.5 mils dry film thickness (not accounting for application losses). Two coats are recommended for best performance.

Equipment: Brush - Use a good quality nylon brush. Roller - All purpose, good quality roller with 3/4" nap maximum. Airless Spray - Minimum of 28:1 ratio pump, .019" - .027" tip, 1/4" ID material hose.

Cleanup: Clean all equipment immediately after use with warm, soapy water. Completely flush all spray equipment with this solution. Occasional flushing of spray equipment during the course of the working day helps prevent buildup and possible clogging. Final flushing of spray equipment with mineral spirits will prevent corrosion. Flush equipment with water prior to application of the product.

Safety: Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product and any recommended thinners. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Shield Products' Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

Disclaimer: It is the responsibility of the Applicator or purchaser to determine the compatibility of the substrate that Shield Products are applied to. We will provide to the best of our ability but will not warrant or be held responsible for results which we have no control over. We warrant our products fully as described. Applicator must be certified to receive or issue Warranty.