PRODUCT NAME:
MASTERFLEX® REFLECTIVE



PRODUCT DESCRIPTION:
MASTERFLEX® REFLECTIVE features advanced HYBRID Poly-Acrylic Technology, combining polyurethane and acrylic polymers to deliver exceptional performance and long-lasting roof protection. Its advanced resin system provides rapid surface hardness, low dirt pickup, high solar reflectance, outstanding UV resistance, and a watertight membrane designed to withstand standing water. Powered by MICROSPHERE™ Technology, this innovative coating reflects solar radiation, helping reduce roof temperatures, keep interior spaces cooler, and lower energy consumption.

PRODUCT USE:
Use for waterproofing and protecting a wide variety of substrates, including:

- Concrete
- Wood
- Roof tiles
- Metal
- Asphalt membrane
- Build-Up Roofs
- Previously coated acrylic roofs

PRODUCT FEATURES:
- HYBRID™ Poly-Acrylic Technology creates a watertight membrane with 100% water-ponding resistance
- Exceptional low dirt pick-up keeps roofs looking like new
- MICROSPHERE™ Technology reflects all solar radiation providing cooler interior temperatures and energy savings
- ROOF DEFENSE™ prevents mold and mildew growth on the dry sealer film
- Fiber reinforced for maximum protection and durability
- Fast Drying- Apply 2 coats in 1 day
- Covers 425 ft² (39.5 m^2) per pail
- Thick coating penetrates and covers filtrations
- CRRC Certified

PRODUCT SPECIFICATIONS:
Product Identification:
VV1235 MASTERFLEX® REFLECTIVE 1 gal
VV1236 MASTERFLEX® REFLECTIVE 5 gal
Resin Type: Polyurethane Acrylic Hybrid
Weight per Gallon: 10.60 ± 1.0 lbs
% Solids by Volume: 55.0 ±1.0%
% Solids by Weight: 65.0 ± 1.0%
VOC: <43.0 g/L
Flash Point: N/A
Viscosity: 115 ± 5.0 KU (Stormer)
Recommended Film Thickness:

- 1st Coat: Wet: 20 Dry: 10 mils @ 425 ft² / 5 gal pail
- 2nd Coat: Wet: 20 Dry: 10 mils @ 425 ft² / 5 gal pail
- Total: Wet: 37 Dry: 20 mils @ 425 ft² / 5 gal pail

Coverage: 425 ft² (39.5 m^2) / 5 gal pail depending on application method and substrate porosity.

- **Concrete Roofs:** 425 ft² / 5 gal pail
- **Wood Surfaces:** 425 ft² / 5 gal pail
- **Metal Roofs:** 850 ft² / 5 gal pail
- **Asphalt & Build-Up Roofs:** 210 ft² / 5 gal pail

SURFACE PREPARATION:
Clean: Pressure washing the entire surface with a 3,000-4,000 psi is recommended for best results. All surfaces must be clean, dry and free of dust, dirt, oil, loose or deteriorated concrete, gravel, peeling paint or improperly adhered roof coatings and all other foreign substances.

MASTER PAINTS & CHEMICAL CORP.
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Any existing mold or mildew on the surface must be completely removed before application of roof coating. Scrub mildew and/or mold contaminated area with a stiff bristle brush or broom and the appropriate dilution of MASTERFLEX® ROOF COATING CLEANER. Rusty metal must be cleaned with a wire brush and primed with a metal primer/sealer before application of roof coating. Give a final rinse to ensure it is free of all detergents or anything else that could affect adhesion. Ensure all roof drains and gutters are clean and clear, and cut back any vegetation that is growing above the roof which may cause debris to fall on the roof and clog drains and gutters in the future. All roof areas must promote positive drainage.

Concrete Roofs: Repair holes or any weakened areas of the concrete surface with QUIKRETE® SAND-TOPPING MIX and MASTERFLEX® WATERPROOF PRIMER & ADMIX. If concrete is extremely deteriorated, the application of a Micro-Topping mix over the entire area to be coated is recommended. Use fine sand, cement and MASTERFLEX® WATERPROOF PRIMER & ADMIX as per the product's instructions. If concrete is extremely porous, apply MASTERFLEX® ROOF PRIMER or MASTERFLEX® WATERPROOF PRIMER & ADMIX in order to prime and seal the surface while improving roof coating coverage and performance.

Metal Roofs: Remove rust and prime all types of metals with MASTER TRUE PRIME™ Heavy-Duty All Surface Primer, Sealer & Stain Blocker. Replace any loose fasteners and old fasteners must be covered with MASTERFLEX® CRACK FILLER.

Asphalt membrane and build-up roofs: Remove all loose mineral gravel and clean roof thoroughly. Repair cracks or joints with MASTERFLEX® CRACK FILLER and FIBER-GLASS PATCHING WEAVE. Apply AQUABLOCK primer before the application of the roof sealer.

Crack Correction: Inspect area to be coated. All cracks need to be corrected before application of roof coating. Use a putty knife or brush to fill the crack with MASTERFLEX® CRACK FILLER extending the material 3" on both sides of the crack. While product is still fresh, embed MASTERFLEX® FIBER-GLASS PATCHING WEAVE in the wet coating applying sufficient force to penetrate into the wet MASTERFLEX® CRACK FILLER. Avoid overstretching or bridging in fabric.

Apply a second coat of MASTERFLEX® CRACK FILLER over the entire surface. The MASTERFLEX® FIBER-GLASS PATCHING WEAVE should not be visible after the second coat application. Allow to dry for 24 hours depending on environmental conditions and repair depth.

Water Ponding Correction: Inspect area to be coated. Concrete roofs with water ponding areas should be corrected and leveled for best results. In order to determine if there are any water ponding areas, spray the entire roof with a garden hose and look for large areas where water becomes stagnant. In order to correct water ponding areas, mix MASTERFLEX® LEVELING REPAIR in accordance with product instructions. MASTERFLEX® LEVELING REPAIR is a self-priming, cementitious product that will seek its own level and produce an even flat surface that will eliminate water ponding areas and extend the useful life of roof coatings. Do not apply over existing roof coatings.

APPLICATION:
Stir thoroughly before using. Apply using a heavy-duty ¾" nap roller or airless spray system. Surface and air temperature must be a minimum of 65°F and rising. Do not apply if heavy dew or rain is expected within the next 12 hours. For best results, apply during the early hours of the morning in order to avoid extremely hot temperatures that could affect drying time and product performance. Apply two (2) uniform coats over entire surface, avoiding excessive rolling. Two full coats are required for complete waterproofing. Apply second coat perpendicular to the first coat. Allow 4 hours between coats and 24-48 hours for full curing.

Brush: Nylon/polyester

Roller: 9" * IJò- 1 1/4"
Airless Spray: 1,400-1,750 psi
Tip: .29"-.41"
Filter: Remove

Thinning: Do not thin. This product is formulated for use at package consistency only.

Dry Time: @ 77˚F & 50% Relative Humidity

To Touch: 1-2 hours
To Recoat: 4 hours

Longer dry time may be required in cooler temperature or higher humidity.

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RECOMMENDED SYSTEMS:
Bare Concrete Surfaces in Good Condition:

- Primer: 1 coat of AQUABLOCK, PRIMER & ADMIX or ROOF PRIMER
- Finish: 2 coats of MASTERFLEX® REFLECTIVE

Properly adhered acrylic elastomeric coatings:

- Primer/Finish: 2 coats of MASTERFLEX® REFLECTIVE

Extremely Deteriorated Concrete:

- Primer: 1 coat of Micro-Topping Mix using MASTERFLEX® PRIMER & ADMIX
- Finish: 2 coats of MASTERFLEX® REFLECTIVE

Extremely Porous Concrete:

- Primer: 1 coat of AQUABLOCK, PRIMER & ADMIX or ROOF PRIMER
- Finish: 2 coats of MASTERFLEX® REFLECTIVE

Ferrous & Galvanized Metal Surfaces:

- Primer: 1 coat of TRUE PRIME™ Heavy-Duty All Surface Primer, Sealer & Stain Blocker
- Finish: 2 coats of MASTERFLEX® REFLECTIVE

Asphaltic Surfaces:

- Primer: 1 coat of AQUABLOCK
- Finish: 2 coats of MASTERFLEX® REFLECTIVE

TEST SPECIFICATION:
Water Resistance:

- Test Method: ASTM D1735
- Result: > 300 hrs

Elongation:

- Test Method: ASTM D2370
- Result: >100%

Tensile Strength:

- Test Method: ASTM D2370
- Result: >S200%

Solar Reflectance per CRRC:

- Test Method: ASTM C1549
- Result: 85%

Thermal Emittance per CRRC:

- Test Method: ASTM C1371
- Result: 89%

LIMITATIONS:

- Do not apply over areas that are subjected to foot traffic
- Do not apply over submerged surfaces

CLEAN UP:
Wash painting tools in warm soapy water immediately after use. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

SAFETY INFORMATION:
Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. May cause allergic skin reaction. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.

First aid: If in eyes: Rinse cautiously with water for several minutes and remove contacts if present and easy to do. Continue rinsing and get medical attention if eye irritation persists. **If swallowed:** Rinse mouth and get immediate medical attention. **If on skin:** Wash with plenty of soap and water.

WARRANTY: Master Paints & Chemical Corp. warrants this product to be free of material defects for a period of twenty (20) years from the date of purchase. This warranty applies only to the original purchaser and only when the product is applied properly, in accordance with the application instructions, and used for its intended purpose as stated on the label. Master Paints & Chemical does not warrant and shall not be liable for damages arising from disasters such as fire, flood, hurricane winds, improper anchoring systems, structural defects or any cause beyond our control.

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Should the product fail to perform as specified, Master Paints & Chemical, at its sole discretion and upon receipt of the purchaser's written notice within the warranty period, will provide replacement product sufficient to repair the affected area. This limited warranty does not cover labor or installation costs, consequential damages, or incidental damages. This warranty does not apply to commercial jobs. For these purposes call Master Paints & Chemical. Contact: (787) 835-4000 / garantias@mastergroup-pr.com. Under no circumstances shall Master Paints & Chemical be liable for any amount exceeding the original purchase price of the product. To activate your warranty, fill out the Warranty Form at www.masterflexpr.com and email it to garantias@mastergroup-pr.com, with your proof of purchase.

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