

MetShield

High Temperature Waterproof Underlayment Membrane



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MetShield PREVENTS:

- Roof Damage from melting ice
- Roof damage from wind driven rain

MetShield IS IDEAL FOR:

- New constructions
- Re-Roofing
- Designed for use under metal roofing
- Roof edges, valleys, ridges and all critical areas

MetShield IS THE ULTIMATE WATER DAMAGE PROTECTION BECAUSE:

- Self-adhesive
- Uniform thickness
- Easy to install
- Skid resistant during application
- Withstands structural movement
- Self-sealing
- Permanent membrane
- Resists high temperatures found under metal roofing (220°)

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High Temperature Waterproof Underlayment Membrane

DESCRIPTION:

MetShield Water and Ice Protection is a sheet membrane underlayment specifically designed for high temperature application typically found under metal roof installation. **MetShield** is a 40 mil. rubberized asphalt material which will prevent water penetration from wind driven rain and water back up caused by ice or debris back up. **MetShield** is used specifically as a metal roof underlayment and is required under all warranted systems.

FEATURES AND BENEFITS:

High Temperature Formulation

MetShield will resist temperatures up to 240° without degradation of the adhesive.

Moisture and Air Barrier

MetShield protects the roof structure from water seepage caused by ice dams and wind driven rains.

Self Sealing

MetShield membranes seal around roofing nails, screws and clips used to install the primary roofing system.

Dual Barrier Protection

MetShield provides maximum water-proofing protection. The composite membrane consists of rubberized asphalt laminated to an impermeable high tensile strength polyethylene film.

Self Adhesive

MetShield membranes bond directly to the roof substrate for fast and easy installation without the need for any adhesives.

Skid Resistant

MetShield features unique skid-resistant surfaces for safe and easy installation

Permanent protection and Low Life Cycle Cost

MetShield will not crack, dry out or rot resulting in long term waterproofing performance.

Aesthetically Pleasing

MetShield is a concealed waterproofing system, guaranteeing the architectural aesthetics of the primary roofing system.

APPLICABLE STANDARDS

MetShield meets or exceeds the applicable requirements of the following standards:

- HUD Material Release 1058A
- UL-790 (Roof Underlayment)
- ASTM D 1970

SPECIFICATIONS:

Roof decks to be protected from ice damage and wind driven water shall be covered with a self-adhering rubberized asphalt membrane with a non-skid polyethylene surface-- **MetShield** High Temperature Waterproof Underlayment Membrane **manufactured for MetFab**. The material shall conform to the requirements of the test data listed.

TECHNICAL DATA

Physical Properties

Surface	Black Film
Thickness	Min. 40 mils
Roll Size	3' x66.7' (0.91m x 20.4m) (200 sq. ft. coverage)
Shipping Weight	65 lbs.
Rolls per pallet	24

Performance Properties:	Test Method	Typical Values
Tensile Strength	ASTM D 412	550 psi
Permeance	ASTM E 96	0.01 perms
Low Temperature Flexibility	ASTM D 1970	no cracking or delamination
Peel Adhesion	ASTM D 903	4 lbs./in. width
Elongation	ASTM D 412	275%

INSTALLATION

Full coverage of **MetShield** is recommended under architectural standing seam metal roof structures and for critical areas like eaves, ridges, valleys and dormers.

- Prepare the roof deck by removing all loose objects, dirt, dust or debris. With re-roofing applications, remove all old materials to the roof deck.
- **MetShield** should be directly installed over a roof deck composed of any of the following materials: plywood, wood plank, wood composites, rigid insulation, metal or gypsum board.
- Cut the membrane into lengths of 3-5m (10-15'), unroll, and lay flat on the roof surface. Then peel off release paper and apply to the roof deck. Press **MetShield** membrane in place.
- Ice Dam Protection: Apply **MetShield** up to the highest expected level of ice dams.
- Wind Driven Rain: Apply **MetShield** to the entire roof surface.
- Overlap end laps 15 cm (6") and side edges of membrane 9 cm (3.5"). **MetShield** membrane should not be folded onto an exposed area of the roof edge.
- Valley and Ridge Application: Remove the release paper and center **MetShield** over the valley or ridge. For valleys, work from the bottom upwards. Center the sheet over the valley or ridge and press into place.

APPLICATION INSTRUCTIONS

- Clean the roof deck by removing all loose objects, dirt, dust and any unnecessary protrusions. With re-roofing applications, remove all old materials down to the roof deck.
- Cut **MetShield** membrane to required length, unroll and lay flat on the roof area. Then peel off the release paper and apply to the roof deck. Overlap ends 15 cm (6") and side edges 9 cm (3.5").
- When applying **MetShield** to concrete, masonry, insulation, gypsum board and any surface where adhesion appears to be marginal, a primer is required. The surface should first be primed and allowed to dry prior to the installation of **MetShield** membrane. Primed surfaces should be covered the same day. When using **MetShield** primers, follow all safety and installation instructions.

MetShield

All Weather Primer

Latex-Based Primer for Use with MetShield Waterproofing Membranes

DESCRIPTION:

MetShield Primer (All Weather Primer) is a single component, water-based primer designed to promote adhesion of **MetShield** Waterproofing Membranes.

MetShield All Weather Primer is designed to set the dust on concrete and block surfaces, and to aid in the adhesion of the waterproofing system to the substrate.

INSTALLATION GUIDELINES

MetShield Primer (All Weather Primer) should be spray applied at a coverage rate of 400 sqft (37.2 m²) per gallon (3.8 liters). Several types of sprayers-Airless, Air Assist, Hudson-may be used. When using a roller, caution must be taken not to apply excess primer which could cause longer drying times.

Normal dry time will be approximately 30 minutes depending on job site conditions. When the **MetShield** has cured, it will not transfer when touched.

Surfaces must be reprimed if left exposed for more than 24 hours. Areas left exposed may collect dust and other contaminants causing adhesion problems.

MetShield AWP is limited to a minimum application temperature of 25°F (3.9°C)

Store **MetShield** AWP above 32°F (0°C).

Refer to MS-DS for warnings and product safety information.

MetShield All Weather Primer Technical Data

WEIGHT PER GALLON

8.2 lbs (3.7 kg)

SOLIDS CONTENT

33-36% by weight / 33.36% by volume

FLASH POINT

N/A

MetShield All Weather Primer Packaging

STYLE NUMBER

200268

PACKAGE

5-Gallon (19-Liter) Box

WEIGHT

45 lbs. (20.25 kg)



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