

REFLEX top coat

HPG - High Performance Grey

DESCRIPTION

- High Infra Red(IR) reflectivity low glare technology coating.
- Highest performance, plasticizer free, single component, water-based, 100% acrylic elastomeric coating for spray brush or roller application.
- Industry leading tensile and elongation properties contribute to an extremely durable and long lasting membrane with exceptional resistance to weathering.
- Utilizes latest technology mixed metal oxide pigments that allow surfaces to remain cool even when gray in color.
- Formulated utilizing special pigments and biocides to provide maximum UV resistance along with a polymer technology that sets the standard for roof coating resistance to discoloration from dirt accumulation.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood and concrete.
- Has the unique ability to “breathe”, providing a completely watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES

Reflex HPG is designed to provide the highest IR reflectivity surface to reduce heat gain without the glare that occurs with white coatings. Provides a cool and protective membrane for most surfaces including galvanized metal, concrete, PVC, Hypalon, EPDM, polyurethane foam and primed smooth and granulated asphaltic surfaces. Check with Neptune Coatings for primer recommendations.

COLORS

Standard Colors: White, Gray and Tan
 Special Colors are available for an additional charge.

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

Property	Test Method	Result
Volume solids	ASTM D-1653	55.0 \pm 2%
Weight Solids	ASTM D-1644	66.0 \pm 2%
Tensile Strength	ASTM D-2370	500 \pm 50 PSI
Elongation	ASTM D-2370	600 \pm 50%
Permeability	ASTM D-1653	14 \pm 3
Tear Resistance	ASTM D-624	133 \pm 3 PSI
Adhesion (wet)	ASTM C-794	7.6 PLI
VOC	EPA Method 24	< 50 g Liter
Low temperature Flexibility (-15°, 1/2 in mandrel, 1000hrs weathering)		Pass
Hardness (Shore A)	ASTM D-2240	50 - 55
Tensile Strength (with 272 Fabric)	ASTM D-2370	2200 \pm 100 PSI
Elongation (with 272 Fabric)	ASTM D-2370	50 \pm 10%
Reflectivity	ASTM C1549	87%
Emittance	ASTM C-1371	.90
SRI	Calculated	107
Viscosity		110 \pm 10 KU
Density		11.1 lbs per gallon
Flashpoint		None
Shelf Life		6 months
Clean Up		Water

SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating and other foreign matter. All wet insulation or foam should be removed and replaced with like materials. For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. All necessary precautions should be taken to avoid damage to the roof system. Mildew should be treated with a bleach solution (1 part Bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.

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Masonry: Allow fresh masonry to cure a minimum of 30 days, prime with PrimeMate.

Metal: Rusty metal must be cleaned with a wire brush and primed with PrimeMate.

EPDM: Prime with PrimeMate, ensure no primer residue remains.

PVC, Hypalon, aged TPO: Prime with PrimeMate.

Polyurethane foam: Apply directly (must be coated within 24 hours of installation).

Granulated Asphalt: Basecoat with Reflex Base Coat.

Smooth Asphalt: Basecoat with Reflex Base Coat.

Other: For other substrates refer to Neptune Coatings for instructions.

APPLICATION

This product may be brushed, rolled or sprayed on a clean, dry surface. For details see Equipment Recommendations at the end of this sheet. If sprayed, material should be at least 75° C. Before applying additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface it must be washed and completely dry before application of subsequent coats.

Application properties :

Yield (1 gal to 100 sq ft)	8.8 dry mils
Dry Time (75° F)	90 mins @ 50% humidity
Recoat window	>6 hrs
Complete Cure	30 days

COVERAGE RATE

Apply Reflex HPG at the rate of 1.5 gallons per 100 sq. ft. (24 wet mils). Surface texture and wind will affect applied mil thickness.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. Product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before product dries. In high humidity conditions late afternoon applications should be avoided as overnight dew formation on uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

PONDED WATER

- Neptune Coatings Systems warranties do not cover damage due to ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

LIMITATIONS

Surface must be clean and dry. Application is not recommend on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of Reflex HPG requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources are available by contacting Neptune Coatings directly.

EQUIPMENT

Minimum requirements:

Brush : Synthetic filament

Roller : 1¼" nap roller

Spray : Always use components rated for pump pressures.

- 30:1 fluid to air ratio capable pump
- 2 1/2 gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2x maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths : (Largest diameter at pump)
 - 3/8 minimum 6 ft wip
 - 3/8 minimum I.D. up to 75 feet
 - 1/2 minimum I.D. up to 200 feet
- 3/4 minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray Tip:
 - Reversible self-cleaning type
 - Orifice size of .027 to .039
 - Fan angle of 40° to 50°
- Always use components rated for pump pressures.

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