

Reflex HPW

Reflex HPW - High Performance White

Elastomeric Acrylic Coating

High Elongation - High tensile

Professional Use Only



DESCRIPTION

- 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.
- 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 USE

Reflex HPW is designed as a protective membrane for most roofing 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
Other colors available : Grey and Tan
Special colors are available for an additional charge.

PACKAGING / SHIPPING INFORMATION

Container size	Shipping Class	Reference
5 Gallon pail (18.9 liters)	Class 55	17-RHPW-5
55 gallon Drum (208 Liters)	Class 55	17-RHPW-55

Property	Test Method	Result
Volume Solid	ASTM D1653	55.0 +/- 2%
Weight Solid	ASTM D1644	66.0 +/- 2%
Tensile Strength	ASTM D2370	500 +/- 50 PSI / 3 MPa +/- 0.3 MPa
Elongation	ASTM D2370	600 +/- 50 %
Permeability	ASTM D1653	14 +/- 3
Tear Resistance	ASTM D624	133 +/- 3 PSI / 900 kPa +/- 2- kPa
Wet Adhesion	ASTM C794	7.6 PLI / 4.175 Nm
VOC	EPA method 24	< 50 g Liter
Low temperature Flexibility (-15°, 1/2 in Mandrel, 1000 hrs weathering)		Pass
Hardness (Shore A)	ASTM D2240	50-55
Tensile Strength (With Fabric)	ASTM D2370	2200 +/- 100 PSI / 15 MPa +/- 0.7 MPa
Elongation (With Fabric)	ASTM D2370	50 +/- 10%
Solar Reflectivity	ASTM C1549	Initial 87% Weathered 83 %
Emittance	ASTM C1371	Initial 0.89 Weathered 0.89
SRI	Calculated	110
Viscosity		110 +/- 10 KU
Density		11.1 lbs per Gallon / 1.33
Flashpoint		None
Shelf Life		12 months*
Clean UP		Water
Fungi resistance	ASTM G21	Passed

* from date of manufacture based contingent upon storage conditions meet Neptune Guidelines

		Initial	Weathered
	Solar Reflectance	0.87	0.83
	Thermal Emittance	0.89	0.89
	Rated Product ID	1256-0001	
	Licensed Manufacturer	1256	
	Classification	Production Line	
<p>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>			

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 / 130 bars 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.

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: Base coat with Reflex Base Coat.

Smooth Asphalt: Base coat 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° F / 23 °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 (1gal to 100 sq ft or 0.4 l/m ²)	8.8 dry mils or 0.2 mm dry
Dry Time (75°F / 23°C)	90 mins @ 50% humidity
Recoat window	> 6 hours
Complete cure	30 days

COVERAGE RATE

Apply Reflex HPW at the rate of 1.5 gallons per 100 sq. ft. / 0.6 l/m² (24 wet mils / 0.6 mm wet). 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 / 10°C or if there is any possibility it could fall below 32°F / 0°C 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 / 1% or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of Reflex HPW 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.

MINIMUM EQUIPMENT

Brush : Synthetic filament

Roller : 1 1/4" nap roller

Spray : Always use components rated for pump pressures.

- 30:1 fluid to air ratio capable pump
- 2 1/2 gallons / 10 l 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 6ft wip
 - 3/8 minimum I.D. up to 75 feet / 23 m
 - 1/2 minimum I.D. up to 200 feet / 61 m
 - 3/4 minimum I.D. over 200 feet / 61 m
- 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°

To our knowledge, all the technical information in this document is true and accurate at the date of publication of this technical data sheet and remain subject to modification without prior notice. The user can contact Neptune Coatings to verify the accuracy of the information before to specify the product or before to order it.

We warranty that our product are compliant with the standards of quality control established by Neptune Coatings. We don't accept any liability regarding the coverage ratio, the performances or any wound resulting from the use of the product. The responsibility of Neptune Coatings if any is limited to the replacement of the product. No other warranty is given by Neptune Coatings directly or indirectly, by legal route or otherwise, regarding the suitability of the product to a given application.