



HT TOP COAT 2450

Technical Data Sheet

For Professional Use Only

High Tensile Acrylic Elastomeric Roof Coating

Recommended Uses

ProRoof HT Elastomeric Top Coat 2450 is designed as a protective membrane for most roofing surfaces including galvanized metal, concrete, PVC, Hypalon, EPDM, polyurethane foam and primed smooth granulated asphaltic surfaces. Check with Proguard Building rep for primer recommendations.

Description

- A high quality, plasticizer free, single component, water-based, 100% acrylic elastomeric jet black 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 specialized pigments and biocides to provide maximum UV resistance and minimize discoloration from dirt accumulation
- Has excellent adhesion to most surfaces including aged asphalt, SPF, primed metal, wood and concrete
- Has the unique ability to “breath”, providing a completely watertight membrane while allowing trapped moisture to escape

Colors

Standard Colors: WHITE, GRAY and TAN. Custom colors are available for an additional charge

Packing/Shipping Information

CONTAINER SIZES:

55 Gallon Drum (208.2 liters)

5 Gallon Pail (18.9 liters)

SHIPPING CLASS - 55

Typical Properties

Property	Test Method	Results
Volume Solids	ASTM D-1653	55% +/- 2%
Weight Solids	ASTM D-1644	66% +/- 2%
VOC	EPA Method 24	< 50G Liter
Tensile Strength	ASTM D-2370	500% +/- 50 PSI
Elongation	ASTM D-2370	600% +/- 50%
Permeability	ASTM D-1653	14 +/- 3
Tear Resistance	ASTM D-624	133 +/- 3 PSI
Density		11.1 lbs per Gallon
Low Temp Flexibility	-15" ½" mandrel 1000 hrs weathering	Pass
Hardness (Shore A)	ASTM D-2240	50 - 55
Reflectivity	ASTM C-1549	87%
SRI	Calculated	107
Emittance	ASTM C-1371	.90
Viscosity		110 +/- 10 KU
Flashpoint		None
Temperature Limit		0* F to 185* F
Shelf Life	Stored between 40* F and 70* F	24 Months (unopened)
Clean Up		Water

Surface Preparation

General: Surfaces to be coated should be dry, free of dust, dirt, oil, 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.

Masonry: Allow fresh masonry to cure a minimum of 30 days, prime with ProRoof CP 1500

Metal: Rusty metal must be cleaned with a wire brush and primed with ProRoof Metal Primer 1400

EPDM: Prime with ProRoof EPDM Wash 1200 Primer/cleaner, ensure no primer residue remains

PVC, Hypalon, aged TPO: Prime with ProRoof SP Primer 1700

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

Granulated Asphalt: Base coat with ProRoof Bleed Block AC 2050

Smooth Asphalt: Base coat with ProRoof Bleed Block AC 2050

Other: For other substrates or unknown please contact Proguard Building directly for primer recommendations

Environmental Conditions: This product cures by water evaporation only. Product must not be applied when the ambient temperature is below 50° F or the temperature will fall below 32 degrees 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 coat can ensure proper drying before rain or overnight freeze.

Limitations: Surface must be clean and dry. ProRoof HT Top Coat 2450 is water based and requires evaporation to cure. Material must cure for at least 24 hours. Low temperature and high humidity will slow the cure process. In these situations, even longer cure times will be necessary. Application is not recommended on roofs with slopes less than ¼" and 12 or where ponding water is present. Note: Blistering will occur if there is any moisture on the substrate or risk of precipitation. If applied where there is a risk of vapor drive, such as cold storage and refrigerated tank application there must be a suitable vapor barrier. ProRoof HT Top Coat 2450 is not intended as a thermal barrier.

Ponded Water: Proguard warranties do not cover damage due to ponding water. The National Roofing Contractors Association considers ponding water on any roof unacceptable.

Applications

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. Substrates should NOT be coated if they appear wet or a moisture test shows moisture underneath. 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. Coating must be extended beyond the substrate to create a self-terminating flashing. Contact Proguard Building for recommendations and installation information.

For details see Equipment Recommendations at the end of this sheet. It is critical that this be allowed to cure for a MINIMUM of 24 hours and even longer in cool or high humidity environments.

Yield (1 gallon to 100 sq. ft.)	8.8 Dry Mils
Dry Time (75* F)	90 Mins @ 50% Humidity
Recoat Window	> 6 Hours
Complete Cure	30 Days

Coverage Rate:

Apply ProRoof HT Top Coat 2450 at a rate of 1.5 gallon per square foot (24 wet mils) depending on the porosity of the substrate. Surface texture and wind will affect applied mil thickness.

Equipment:

Minimum Requirements:

Brush

- Synthetic filament

Roller

- 1 ¼ nap roller

Spray:

- 30:1 fluid to air ratio capable pump
- 2 ½ gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose lining should be compatible with coating and required cleanout materials
- Hose rated to 2x maximum pump pressure
- Hose lengths: (largest diameter at pump)
 - ⅜ minimum 6 ft wip
 - ⅜ minimum I.D. up to 75 feet
 - ½ minimum I.D. up to 200 feet
- ¾ minimum I.D. over 200 feet
- Spray gun: Graco Hydratec or Equivalent

- Spray Tip:
 - Reversible self-cleaning
 - Orifice size of .027 to .039
 - Fan angle of 40 to 50* deg

Always use components rated for pump pressures

Safe Practices

The 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 not limited to, SDS and product labels. More resources are available at proguardbuilding.com or by contacting Proguard Building directly.

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