



# THERMO BLACK PRIMER 1100

## Technical Data Sheet

For Professional Use Only

## General Purpose Black Primer

### Recommended Uses

ProRoof Thermo Black Primer is a general purpose primer that provides excellent adhesion. It will improve yield in polyurethane foam applications and improve system adhesion in aged asphalt, concrete, masonry, primed metal and wood. Thermo Black Primer used in spray foam applications will improve SPF yield. Contact Proguard Building for specific application information.

### Description

- A high quality, plasticizer free, single component, water-based, 100% acrylic elastomeric jet black coating for spray, brush or roller application.
- Designed with specialized polymers and wetting agents that maximize adhesion
- Thermo Black Primer is available in jet black to provide rapid solar gain of substrates
- Also available in high build light gray version for wall applications
- 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:** JET BLACK, LIGHT GRAY, SATIN GLOSS

### Packing/Shipping Information

#### CONTAINER SIZES:

55 Gallon Drum (208.2 liters)

## Typical Properties

Property	Test Method	Results
Volume Solids	ASTM D-2697	38 +/- 2%
Weight Solids	ASTM D-1644	45% +/- 2%
VOC	EPA Method 24	< 50G Liter
Density	ASTM D-1475	9.4 lbs per Gallon
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.

**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 Thermo Black Primer 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 1/8" 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 Thermo Black Primer 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.)	10 Dry Mils
Dry Time (75* F 50% Humidity)	4 Hours
Recoat Window	> 6 Hours
Complete Cure	24 Hours (weather dependent)

### Coverage Rate:

Apply ProRoof Thermo Black Primer at a rate of .5 gallon per square foot (8wet 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 1/4 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)
  - ¾ minimum 6 ft wip
  - ¾ 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 Hyrdra Mastic 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](http://proguardbuilding.com) or by contacting Proguard Building directly.

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