

**DESCRIPTION:** DuraTite® 1150P is a single component urethane primer designed to help neutralize residual moisture (not water) to promote adhesion of a wide variety of roofing systems and top coats including spray polyurethane foam, polyurea, urethane, acrylic, or silicone. It produces an extremely tough film as a base for many roofing systems. It is flexible, accommodating movement of the substrate, yet strong enough to remain intact under most conditions except major structural dislocations. DuraTite 1150P can be successfully installed in a wide range of ambient temperatures and humidity levels and will cure under cold, ponded water and ice. It is an excellent primer for roof restoration problem surfaces like metal panels.

**TYPICAL USES:**

- Commercial and industrial roof primer
- Primer for metal panels

**FEATURES & BENEFITS:**

- Easy and convenient to apply
- Cures under cold, ponded water and ice
- Installed in a wide range of ambient temperatures and humidity levels
- Can be applied with airless sprayer, brush or roller

**CHEMICAL PROPERTIES:**

	Test	Result
Specific Gravity (grams/cc)		0.995
Viscosity (cps)		50
Solids by Volume	ASTM D-2697	48% ± 2
Solids by Weight	ASTM D-1644	56% ± 2
Dry to Touch		3 hour*
Tack Free		5 hours*
Recoat Window		12 – 24 hours*
Theoretical Coverage		150 sqft/gal @ 5 mils 77 sqft/gal @ 10 mils
Flash Point		>100°F (38°C)
Color		clear/amber
Shelf Life - Unopened Containers		12 months

\*Dry and cure times are dependent upon mil thickness and temperature at the time of application.

**TYPICAL PHYSICAL PROPERTIES:**

	Test	Result
Hardness (Shore D)	ASTM D-2240	45 ±5
Tensile Strength (psi):	ASTM D-412	600 ± 50
Elongation (%):	ASTM D-412	150 ± 10

**PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS:** DuraTite 1150P can be spray-applied using approved equipment. The system settings required to achieve a quality coating application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum quality.

Equipment	Processing Pressure	Equipment Output
High pressure airless sprayer	2500 – 3000 psi	> 2 gallons per minute

  

Primer Temperature	Ambient Temperature
70°F (21°C)	>50°F (10°C)

**PREPARATION:** Any physical damage to the roof must be repaired prior to coating application. Roof surface must be clean, dry and free of any oil, grease, dirt, loosely adhered roofing materials, or other foreign contaminants that would prevent proper adhesion. Any such contaminants must be removed from the application surface via power washer, and/or broom using the appropriate detergents and/or bleach and then roof surface rinsed with clean water. After contaminants are removed, and roof surface has been rinsed, application surfaces must be checked for compatibility.

(continued)

**DURATITE® 1150P (continued):**

Always perform a coating adhesion test before doing the entire roof.

Precautions must be taken when applying DuraTite 1150P to occupied buildings to ensure that air conditioners and ventilation units are turned off and covered to prevent solvent vapors from entering the building. Windows should remain closed during application. Signs should be posted around application area to restrict entrance into application area and to warn building occupants or passersby of the respiratory risks

**MIXING INSTRUCTIONS:** DO NOT THIN. No mixing required.

**APPLICATION INSTRUCTIONS:** The successful installation of DuraTite 1150P will depend on the equipment capabilities and settings as well as the temperature of the coating at time of application. It is the responsibility of the applicator to take these factors into consideration prior to installation. If material appears thickened due to storage at cold temperatures, store material for a sufficient length of time in a warm area prior to application to bring material temperature to 70°F (21°C). No thinning or reducing is necessary. DuraTite 1150P is affected by moisture and must be protected from moisture contamination.

DuraTite 1150P is best suited for application through airless spray equipment with a minimum output of 2 gpm (gallons per minute) and minimum operating pressure of 2,500 psi. A natural bristle brush or a medium nap roller can be used for touch-up and edge work, or for small areas that are not practical for spray application. It is recommended that DuraTite 1150P be reinforced with glass fiber matt or nylon mesh, particularly over seams and joints, to increase tensile strength and improve the consistency of the application surface. Be advised that while this will increase tensile strength, it will reduce elongation.

**NOT RECOMMENDED FOR:** DuraTite 1150P should not be used as a topcoat or left exposed to direct sunlight. It is designed as a tie-coat to promote adhesion of a topcoat in roofing systems. Not recommended for indoor use.

**SUBSTRATES:** DuraTite 1150P is compatible with all common building and roofing materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, glass, asphalt, EPDM rubber, TPO, aggregate, spray foam, and others.

**HOW SUPPLIED:** Chemical is packaged in 55 gallon (208 L) drum or 5 gallon (18.9 L) pail.

DuraTite 1150P Part #: FFRC-Arnthane Roof Prime

**STORAGE:** DuraTite 1150P should be stored between 35 – 80°F (1.7 – 26.7°C). Keep out of direct sunlight.

**SAFETY PRECAUTIONS: Health Considerations - Consult the Rhino Linings® Safety Data Sheets (SDS)**

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

**For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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