

PART NUMBERS: DT1175-P, DT1175-D

DESCRIPTION:

DuraTite[®] 1175 is high-solids, aromatic, single component, elastomeric, urethane coating for roofing, or industrial use. It can be used as a standalone product or as a part of a surface coating system in conjunction with DuraTite 1150P primer or the DuraTite CC2.5, 2.8, and 3.0 spray foam roofing system. DuraTite 1175 contains no restricted VOCs. Product is resistant to chemical attack, and abrasion. DuraTite 1175 is designed to seal and waterproof vertical and horizontal construction components.

TYPICAL USES:

- Waterproofing and roofing applications such as:
 - Maintenance, repair, and recover of single ply membranes, built-up and modified bitumen.
 - Restoration of metal roof panels.
 - Spray polyurethane foam.
 - Pedestrian and vehicular bearing decks.
 - Concrete and CMU block.
 - Roof level metal mechanical ducts, sheet metal pans, and counter flashing.
 - Storage tanks and silos.
- Agricultural, industrial, and construction applications.

FEATURES and BENEFITS:

- DuraTite 1175 can be successfully installed in a wide range of ambient temperatures and humidity levels.
- Can be applied with standard airless paint sprayer, brush, roller, broom, or squeegee.

CHEMICAL PROPERTIES:

	Test	Result
Solids by Volume	ASTM D-2697	70% ± 2
Solids by Weight	ASTM D-1644	75% ± 2
Volatile Organic Compounds (g/l)	EPA Method 24	< 200
Aluminum Content by Volume		28.73%
Shelf Life - Unopened Containers		12 months

REACTION TIME & COVERAGE:

	Result			
Dry to Touch @ 77°F (25°C)*	1 – 3 hours			
Tack Free @ 77°F (25°C)*	3 – 5 hour			
Walk on Time (light foot traffic)*	7 – 9 hours			
Recoat Time*	5 – 22 hours			
Cure Time*	22 – 26 hours			
Theoretical Coverage**	DFT	WFT	Application Rate	Coverage Rate
	12 mil	17.1 mil	1.07 gal/sq	94 sqft/gal
	18 mil	25.7 mi	1.6 gal/sq	62 sqft/gal
	24 mil	34.3 mil	2.14 gal/sq	47 sqft/gal
	36 mil	51.4 mil	3.21 gal/sq	31 sqft/gal
	48 mil	68.6 mil	4.28 gal/sq	23 sqft/gal
Flash Point	>100°F (38°C)			

*Dry and cure times are dependent upon mil thickness and temperature and relative humidity at the time of application. High temperatures and low relative humidity will accelerate the drying and curing process, while low temperatures and high relative humidity will slow the process. **Theoretical Coverage is based on 0% loss and is dependant on surface texture and porosity of substrate.

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Hardness (Shore A):	ASTM D-2240	60 ± 5
Tensile Strength (psi):	ASTM D-412	600 ± 50
Elongation (%):	ASTM D-412	125 ± 10
Tear Resistance (pli) Die C:	ASTM D-1004	150 ± 50
Permeability (perms) @ 20 mils:	ASTM E-96	0.01
Weathering/UV Resistance (700 hrs):	ASTM D-822	Slight chalk
Reflectivity:		76%
Emissivity:		0.25
SRI Value:		77

PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS:

DuraTite 1175 can be spray-applied using approved equipment. The system settings required to achieve quality coating application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum quality.

Do not apply when roof surface is below 50° F, or when weather conditions will not allow adequate curing of the coating. Do not apply if rain, dew, or freezing temperature are likely to occur prior to when the product will dry and cure. Do not apply when ambient temperature is within 5° F of the dew point or is expected to be within 5° F of the dew point within 24 hours following application.

Equipment	Processing Pressure	Equipment Output
High pressure airless sprayer	2500 – 3000 psi	2500 – 3000 psi

Chemical Temperature	Ambient Temperature	Substrate Temperature	Humidity
>65° F (18.3° C)	50 – 100° F (10 – 37.8° C)	50 – 135° F (10 – 57.2° C)	<90% RH

PREPARATION OF SUBSTRATES:

Any physical damage to the roof must be repaired prior to coating application. Roof surface must be clean, dry, and free of any mildew, 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. Always perform a coating adhesion test before doing the entire roof. Depending on the roof surface type and condition a primer may be required to ensure proper adhesion.

Precautions must be taken when applying DuraTite 1175 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 be closed during application. Signs should be posted around application area to restrict entrance into application area and to warn building occupants or passerby of the respiratory risk.

MIXING INSTRUCTIONS:

Duratite 1175 needs to be mixed with an electric drill mixer or jiffy mixer before application. Containers that have been stored for an extended length of time, may develop a skin on top of the coating, which must be removed prior to use. Thinning is not recommended.

APPLICATION:

DuraTite 1175 is flammable. Use only in a well ventilated area. Keep away from heat, sparks, open flames, or lighted cigarettes. The successful installation of DuraTite 1175 will depend on the equipment capabilities and settings, the temperature of the coating in the container, ambient temperature and relative humidity, substrate temperature and moisture content, substrate type, and condition. It is the responsibility of the applicator to take these factors into consideration prior to installation. If material appears thickened due 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). Thinning is not recommended. DuraTite 1175 is a moisture cure product and

must be applied in ambient conditions that enable evaporation in order to cure properly. Polyurethane foam should be coated within 24 hours after foam has been sprayed and additional coats should be applied as soon as previous coat is dry and cured to ensure full, uniform adhesion.

It is recommended that DuraTite 1175 be applied in two or more separate coats to ensure proper coverage, cure rate, and to provide a continuous, durable film without pinholes. Individual coats of DuraTite 1175 should be applied in perpendicular direction to the previous coat. It is recommended that the edges, joints, and seams, in the roof be pre-coated. DuraTite 1175 can 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. For application in high humidity or low temperature environments, apply product in thin passes to promote proper drying and curing.

It is the responsibility of the building owner(s) to verify that your roofing contractor maintains proper credentials, insurance, and licenses and is properly trained to safely install roof coating products.

SUBSTRATES:

DuraTite 1175 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:

DuraTite 1175 is packaged in a 418 lb (190 kg) 50 gallon (189 L) drum, or a 44 lb (20 kg), 5 gallon (18.9 L) pail.

COLOR OPTIONS: Standard color: silver reflective. All other colors are custom matched for the specific application. Color chips or samples must be furnished for all custom colors and samples must be approved by customer prior to mass production.

STORAGE:

DuraTite 1175 should be stored between 35 – 90° F (1.7 – 32.2° C) out of direct sunlight. It is affected by moisture and must be protected from moisture contamination.

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 for detailed information and handling guidelines.

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