

**DESCRIPTION:** DuraTite® 1285 is an aliphatic, single component, elastomeric, urethane coating that forms a flexible, durable, coating for roofing or industrial use. DuraTite 1285 is highly reflective and is resistant to discoloration from UV light, chemical attack, and abrasion. It demonstrates exceptional adhesion to concrete, bitumen, and asphaltic roofing felts, galvanized steel, wood, and numerous other substrates and remains flexible in cold temperatures. DuraTite 1285 can be successfully installed in a wide range of ambient temperatures and humidity levels and will cure under cold and ponded water. When cured, it forms a durable skin at thicknesses above 10 mils allowing for high-build applications up to 100 mils without running or sagging.

**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 bearing decks
  - Concrete and CMU block
  - Roof level metal mechanical ducts, sheet metal pans and counter flashing
  - Storage tanks and silos
- High build applications up to 100 mils

**FEATURES & BENEFITS:**

- DuraTite 1285 can be successfully installed in a wide range of ambient temperatures and humidity levels and will cure under cold and ponded water
- Can be applied with standard airless paint sprayer, brush, roller, broom or squeegee

**CHEMICAL PROPERTIES:**

	Test	Result
Solids by Volume	ASTM D-2697	77% ± 2
Solids by Weight	ASTM D-1644	85% ± 2
Volatile Organic Compounds (g/l)	EPA Method 24	< 250
Shelf Life - Unopened Containers		12 months

\*Actual coverage rates will be determined by substrate texture, roof conditions, and the skill and experience of the applicator.

**REACTION TIME & COVERAGE:**

	Result			
Dry to Touch @ 77°F (25°C)*	2 – 4 hours			
Tack Free @ 77°F (25°C)*	5 – 7 hour			
Walk on Time (light foot traffic)*	15 – 17 hours			
Recoat Time*	5 – 24 hours			
Cure Time*	22 – 26 hours			
Theoretical Coverage**	DFT	WFT	Application Rate	Coverage Rate
	12 mil	15.6 mil	0.97 gal/sq	103 sqft/gal
	18 mil	23.4 mil	1.46 gal/sq	69 sqft/gal
	24 mil	31.2 mil	1.49 gal/sq	51 sqft/gal
	36 mil	46.8 mil	2.91 gal/sq	34 sqft/gal
	48 mil	62.3 mil	3.89 gal/sq	26 sqft/gal
Flash Point	144°F (62°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	85 ± 5
Tensile Strength (psi):	ASTM D-412	1200 ± 50
Elongation (%):	ASTM D-412	150 ± 40
Tear Resistance (pli) Die C:	ASTM D-1004	200 ± 50

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**DURATITE® 1285 (continued):**

Taber Abrasion (mg)		28 loss
Permeability (perms) @ 20 mils:	ASTM E-96	0.78
Weathering/UV Resistance (2000 hrs):	ASTM D-822	No chalking
Initial Reflectivity		81%
Initial Emissivity		0.89
Initial SRI	ASTM E-1980	101

**PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS:** DuraTite 1285 can be spray-applied using approved equipment. The system settings required to achieve quality spray foam 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 40°F (4°C), 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 dewpoint within 24 hours following application.

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

Chemical Temperature	Ambient Temperature	Substrate Temperature	Humidity
>65°F (18.3°C)	50 – 100°F (10 – 37.8°C)	40 – 135°F (4 – 57.2°C)	<90% RH

**PREPARATION:** 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 1285 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:** 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. Mixing is not recommended.

**APPLICATION INSTRUCTIONS:** DuraTite 1285 is flammable. Use only in a well ventilated area. Keep away from heat, sparks, open flames or lighted cigarettes.

The successful installation of DuraTite 1285 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.

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 the edges, joints, and seams, in the roof be precoated. 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.

DuraTite 1285 is 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 1285 should be applied in perpendicular direction to the previous coat. DuraTite 1285 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.

In high-traffic areas, it is recommended that DuraTite 1285 be reinforced and have sand or similar aggregate broadcast onto it for increased abrasion resistance. .

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.

**NOT RECOMMENDED FOR:** Do not use in applications where direct contact with extremely high or low pH will occur. Composite systems are available.

**SUBSTRATES:** DuraTite 1285 is chemically and physically compatible with all counter building and roofing materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, glass, asphalt, EPDM rubber, TPO, aggregate, spray foam,

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**DURATITE® 1285** (continued):

and others.

**HOW SUPPLIED:** DuraTite 1285 is packaged in 55 gallon (208 L) drum or 5 gallon (18.9 L) pail with net weight of 60 pounds (27.2 kg).

DuraTite 1285 Part #: FFRC-ARNTRCSPWHT

**COLOR OPTIONS:** Standard color: white. 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 1285 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 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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