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NovaTuff RC-100 Flexible Epoxy Roof Coating (formerly AES-100)

PRODUCT INFORMATION SHEET

PRODUCT DESCRIPTION

NovaTuff RC-100 Flexible Epoxy Roof Coating is a flexible, two-part epoxy designed to protect a variety of surfaces. When cured, **NovaTuff RC-100** forms a flexible, rubber-like membrane that is UV stable and withstands ponding water. It is especially suited to applications where chemical or corrosion protection is needed and where moisture content may prevent the use of other coatings.

Proper inspection and preparation of the substrate to receive NovaTuff Epoxy coating material is critical. The preparation procedures listed here are general guidelines. Detailed preparation methods are available through SSPC at www.sspc.org or NACE at www.nace.org.



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ADVANTAGES

- Provides a secure barrier to water penetration. Light rain will not adversely affect coating during application.
- Adheres even to damp surfaces without priming.
- Smooth nonporous surface which allows dirt to wash off during a rain storm.
- 100% adhesion of product to substrate.
- Retains flexibility in freezing conditions.
- Minimal surface temperature increase above ambient temperature.
- Sustainable roofing system that saves expensive removal and disposal.
- 10 yr. extendable warranty available for roofs.

TYPICAL USES

NovaTuff RC-100 is excellent for waterproofing EPDM, TPO, PVC, built-up, single ply, polyurethane foam, concrete, and metal roofs.

RESISTANCE

- Withstands ponding water.
- Provides excellent protection against acids, bases and petroleum-based products.
- Provides excellent protection against salt spray for ocean front properties.
- Does not support the growth of fungi.

SURFACE PREPARATION

Surfaces must be cleaned free of grease, oil, films, dust, or any other contaminants. All roof surfaces must be pressure-washed to remove any barrier films. Metal must be free of mill scale, oils, rust, etc. Hard-finished concrete should be etched to provide profile (or "tooth") for optimal adhesion.

These preparation procedures are general guidelines. Please consult NovaTuff technicians for further details or special preparation procedures. Roofing specifications are also available for various substrates.

PRODUCT CHARACTERISTICS

Color and Finish: White, Tan or Gray
Solids: 80% Solids by weight
Mix Ratio: 3:1

PERFORMANCE TESTING RESULTS		
Test Name	Test Method	Results
Flame Spread	ASTM-E108	Class A – Pass
Salt-Fog	ASTM B-117, 500 hours	Pass
Permeance	ASTM D-1653	0.8 Perms
Water Swelling	ASTM D-471	1.7%
Tensile Strength	ASTM D-638	1393 psi 210% elongation
Adhesion	ASTM D4541 210 psi	Pass
Tear Resistance	ASTM D-624	118 lb/in
Fungi Resistance	ASTM G-21	0 - Pass
Fire Rating	ASTM E-108	Class "A"
Low Temperature Flex	ASTM D-522 -15°F	Pass
Accelerated Weathering	ASTM D-4798 1000 hour	Pass (No cracking or checking)
Controlled Impact	2 ½ inch simulated hail Polyurethane Foam (36-40 mils) Metal (24-26 mils)	No rupture
Solar Reflectance	ASTM C-1549	0.87
Emittance	ASTM C-1371-04a	0.88
Solar Reflectance Index	ASTM E-1980	110

MIXING

The mixing of parts A & B is very important! **NovaTuff RC-100** has a mixing ratio of 3 parts "B" to 1 part "A". Use a power mixer to thoroughly combine both parts. Mix for a minimum of one minute per gallon. Allow idle activation time for a minimum of 10 minutes before applying.

APPLICATION

NovaTuff RC-100 should be applied in well-ventilated areas. Surfaces should be free of foreign matter. DO NOT apply product near an open flame.

Brush, 3/8" nap roller cover or airless spray equipment may be used to apply **NovaTuff RC-100**. Surface configuration, weather, or area surroundings will dictate application method.

1. Premix **Base** using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 1 part **Activator** to 3 parts **Base** by volume. Mix with low speed drill and Jiffy blade for three to five minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply **NovaTuff RC-100** using a brush, roller or airless spray equipment at a spread rate of 100 square feet per gallon to yield 12-14 mils WFT making sure of uniform coverage. Take care not to puddle materials and insure even coverage.
4. Allow to cure 24 hours minimum before opening to traffic and water exposure.

To get dry film of:	Apply Sq. Ft/Gal:
6.5 mils	200 sq. ft.
13 mils	100 sq. ft.

DO NOT apply product heavier than 100 sq. ft. per gallon per coat. For a heavier dry film, apply necessary number of coats. Use of thinner increases possibility of sag and reduces dry film thickness. **NovaTuff RC-100** may be applied to damp surfaces, but it is best to have a dry surface if possible.

A two-coat application is recommended to help ensure complete protection. Surfaces subject to significant movement or other difficult conditions may require heavier applications and the use of roofing fabric. All transitions of surface materials should be covered with **NovaTuff RC-100** and roofing fabric. All penetrations should be sealed with **NovaTuff C-300 Caulk**.

Apply only when air temperature is 40° F and rising with no forecasted freeze or snow for a minimum of 48 hours.

WARRANTY

NovaTuff Coatings warrants our products to be free of manufacturing defects in accord with applicable quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by NovaTuff Coatings.

NovaTuff Coatings makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. NovaTuff Coatings assumes no responsibilities for injury from the use of this product.

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY NOVATUFF COATINGS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CURING TIME

Pot Life	4 hours @ 80°F
Drying Time	8 hours @ 80°F
Total Cure	7 days @ 80°F

CLEANUP

Clean up mixing and application equipment immediately after use with lacquer thinner, toluene or xylene. Observe all fire and health precautions when handling or storing solvents. Use Apple Cider Vinegar to clean hands and skin. **Do not allow NovaTuff RC-100 to remain on tools! Once it sets and is cured, it is difficult to remove.**

THINNING

Thinning is typically not needed. If thinning is necessary, add no more than 1 quart of Xylene per 5 gallons of **NovaTuff RC-100**. Thinner must only be added after the mixed product has had time for activation to begin.

PACKAGING INFORMATION

4 Gallon Kits	
3 cans containing 1 gallons Base	Part B
1 cans containing 1 gallons Activator	Part A
20 Gallon Kits	
5 pails containing 3 gallons Base	Part B
1 pails containing 5 gallons Activator	Part A

STORAGE

Store in accordance with instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. 12 months shelf life is expected for products stored between 40°F (4.5°C) - 100°F (38°C). Do not allow products to freeze.

DISCLAIMER

Refer to the MSDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of NovaTuff Coatings. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local NovaTuff distributor or technical representative for additional technical data and instructions.

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Disclaimer: The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.