

Installation Guide Specification  
Coating Specification

**I. GENERAL**

1.01 SUMMARY

This Specification is a part of and must be used in conjunction with NCFI ENDURATECH Premier Roofing System Specifications.

These Supplemental Specifications cover the application of coatings applied to NCFI EnduraRock roofs.

**II. PRODUCTS**

2.01 ACRYLIC ELASTOMERIC COATINGS

The following acrylic coating is approved for use on NCFI EnduraRock roofs:

| <b>PRODUCT</b> | <b>SUPPLIER OR DISTRIBUTOR</b> |
|----------------|--------------------------------|
| ENDURATECH     | NCFI Polyurethanes             |

For additional approved coatings, please contact NCFI Polyurethanes.

**III. EXECUTION**

3.01 PRECAUTIONS

Follow all precautions and recommendations provided by the manufacturer on the product label.

- A. DO NOT TAKE COATING MATERIALS INTERNALLY.
- B. AVOID BREATHING SPRAY MIST.
- C. DO NOT ALLOW CONTACT WITH EYES. If contact is made, flush eyes with large amounts of fresh water for 15 minutes and consult a physician.
- D. KEEP OUT OF REACH OF CHILDREN.
- E. Protect uncured acrylic coatings from freezing.

3.02 AREAS REQUIRING COATING

- A. Vertical Surfaces, Flashing, and Miscellaneous Details: Apply coating 4 inches above the top of the foam termination line and continue downward onto the horizontal foamed roof surface for 12 inches. Apply full specified thickness. Cover the horizontal coated areas with gravel.

- B. Draining Edges: At roof edges where water drains from the roof, apply coating from roof edge to 12 inches into the field of the roof. Apply full specified thickness.

Apply additional coating at these edges when applying gravel to embed gravel into wet coating.

- C. Non-Draining Edges: Apply coating from roof edge to 12 inches into the field of the roof. Apply full specified thickness. Cover the horizontal coated areas with gravel.
- D. Unprotected Roof Corners: Outside roof corners without parapets (where gravel scour is possible) should be coated in a 10-foot radius into the field of the roof. Apply half specified thickness. Cover the horizontal coated areas with gravel.

### 3.03 METHOD OF APPLICATION

- A. Spray: Spraying is the fastest method of application and provides the best control of thickness. Consult coating material manufacturers for specific equipment recommendations.
- B. Roller/Brush: Small areas and touch-up work may be rolled or brushed. Rollers should be the long nap type. Special care must be made to insure proper coating thickness is maintained.

### 3.04 REQUIRED THICKNESS

For Warranted NCFI ENDURATECH Premier Roof projects, apply sufficient coating to achieve the following average and minimum dry film thicknesses:

| Coating Material | Warranty Type     |                   |                   |                   |
|------------------|-------------------|-------------------|-------------------|-------------------|
|                  | Type I            |                   | Type II           |                   |
|                  | Average Thickness | Minimum Thickness | Average Thickness | Minimum Thickness |
| ENDURATECH       | 30                | 20                | 40                | 30                |

### 3.05 APPLICATION RATES

The following table provides typical coating application rates:

| Typical Coating Application Rates<br>in gallons/100 sq ft (gal/roofing square) |                          |                            |         |         |         |
|--|--------------------------|----------------------------|---------|---------|---------|
| Coating Material   | % Solids<br>by<br>Volume | Average Dry Film Thickness |         |         |         |
|  |                          | 25 mils                    | 30 mils | 40 mils | 48 mils |
| ENDURATECH   | 60                       |                            | 4.1     | 5.4     |         |

*Note: The above table assumes typical coating application rates will be 30% higher than theoretical application rates. Actual application rates will vary depending on foam texture, application technique, and miscellaneous losses.*

### 3.06 TIME AND CONDITIONS OF APPLICATION

#### A. Base Coat

1. Apply the base coat within 24 hours of the polyurethane foam application.
2. Apply base coats to a minimum thickness of 10 dry mils.

#### B. Top Coat(s): Depending on the characteristics and the final dry film thickness required, multiple top coats may be required to achieve the specified dry film thicknesses. Top coats should be applied as soon as practical once the base or previous coat has cured. Apply top coats prior to applying the gravel covering.

#### C. Temperature Requirements

1. Acrylic Coatings: Acrylic coatings are water-based. The properties of these coatings will be adversely affected if they are exposed to freezing temperatures and/or precipitation prior to their curing.

Do not apply acrylic coatings when air temperatures are below 45°F.

Only apply acrylic coatings when they will reach their initial "set" prior to rain or temperatures below 40°F. Coated areas not properly set and subjected to rain or freezing temperatures will not adhere and will require recoating.

At 70°F and 70% relative humidity, acrylic coatings will typically reach their initial set in 3-4 hours.