



TGFU.R16029 Roofing Systems

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Roofing Systems

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R16029

NCFI Polyurethanes "591 Series" urethane foam insulation may be used as an alternate to "Pro-Tech Urethane Foam" in any of the non-combustible systems listed below.

Any of the systems listed below may be covered with a field mixed coating composed of "Pro-Tech Products Dry Mix" (40-lbs), Rohm & Haas MC-76 (1/2-gal), Rhone-Poulenc Colloid 622 (3/4-oz), 4 1/2-gal. Water applied per 100-ft.².

Young Builders Roofing "DuraGard Roof Mix" may be used in lieu of "Pro-Tech Dry Mix II" in any of the following roofing systems.

Any of the following Class A Spray Applied Foam and Coating Systems may be used as Maintenance and Repair Systems when applied over an existing roof covering system and shall maintain the existing roof classification, providing a minimum 1 1/2-in. thick foam is used and maximum incline limitations are observed.

SPRAY APPLIED FOAM AND COATING SYSTEMS

Class A

- 1. Deck: NC** **Incline: 1**

Foam: — "Pro-Tech Urethane Foam" insulation, min 1 in. thick.
Base coat: — "EC-100", at 1 1/2-gal/100-ft.².
Top coat: — "EC-100", at 1 1/2-gal/100-ft.².
- 2. Deck: NC** **Incline: 1-1/2**

Foam: — "Pro-Tech Urethane Foam" insulation, 1 in. thick.
Base coat: — "EC-100", at 1 1/2-gal/100-ft.².
Top coat: — "EC-100", at 1 1/2-gal/100-ft.².
- 3. Deck: NC** **Incline: 1/2**

Foam: — "Pro-Tech Urethane Foam" or Polythane Systems SH-200-25 Insulation, min 1 in. thick.
Base coat: — "EC-100", at 1 1/2-gal/100-ft.².
Top coat: — "EC-100", at 1 1/2-gal/100-ft.².
- 4. Deck: C-15/32** **Incline: 1/4**

Foam: — "Pro-Tech Products Urethane Foam", or Polythane Systems SH-200-25 insulation, min 2 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Products Dry Mix" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water (4-1/2 gal.) spray applied per 100 sq ft.
- 5. Deck: C-15/32** **Incline: 1/2** **Impact: 1**

Tape: — All joints in deck taped with one layer of 2 mil thick aluminum backed 2 in. wide tape.
Foam: — "Pro-Tech Urethane Foam" insulation only, min 1 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Dry Mix II" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water at (3-1/2 to 4-1/2 gal.) spray applied per 100 sq ft.
- 6. Deck: NC** **Incline: Unlimited** **Impact: 1**

Foam: — "Pro-Tech Urethane Foam" insulation only, min 1 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Dry Mix II" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water

at (3-1/2 to 4-1/2 gal) spray applied per 100 sq ft.

7. Deck: NC

Incline: Unlimited

Insulation: — NCFI Polyurethanes "10-001", any thickness.

Base/Top Coat: — "EC-100" at 1-1/2 gal/sq (two applications) plus Granules (50 lbs/sq) imbedded into one of the wet coats.

Surfacing: — Mixture of "Pro-Tech Dry Mix II" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water at (3-1/2 to 4-1/2 gal.) spray applied per 100 sq ft.

8. Deck: C-15/32

Incline: 1/2

Tape: — All joints in deck taped with one layer of 2 mil thick aluminum backed 2 in. wide tape.

Insulation: — NCFI Polyurethanes "10-001", 1 in. thickness.

Base/Top Coat: — "EC-100" at 1-1/2 gal/sq (two applications) plus Granules (50 lbs/sq) imbedded into one of the wet coats.

Surfacing: — Mixture of "Pro-Tech Dry Mix II" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water at (3-1/2 to 4-1/2 gal.) spray applied per 100 sq ft.

9. Deck: NC

Incline: 3

Insulation: — NCFI Polyurethanes "10-001", any thickness.

Base/Top Coat: — "EC-100" or "Pro-White" at 1½-gal/100-ft.² (two applications) plus Granules (50 lbs/sq) imbedded into one of the wet coats.

10. Deck: NC

Incline: 1

Insulation: — NCFI Polyurethanes "10-001", any thickness.

Base/Top Coat: — "EC-100" or "Pro-White" at 1½-gal/100-ft.² (two applications).

11. Deck: NC

Incline: 1

Foam: — Pro-Tech Products "10-011", any thickness.

Surfacing: — Two applications Pro-Tech "EC-100" acrylic roof coating applied at 1.75 - 1.85-gal/sq. (35 dry mils).

12. Deck: NC

Incline: 4

Foam: — Pro-Tech Products "10-011", any thickness.

Coating: — Pro-Tech "EC-100" applied at a maximum of 3.7 gal/sq.

Surfacing: — Granules applied at 50 lbs/sq.

13. Deck: NC

Incline: 1

Foam: — Pro-Tech Products "10-014", any thickness.

Base Coat: — Pro-Tech "EC-100" applied at 1-1/2 gal/sq.

Top Coat: — Pro-Tech "EC-100" applied at 1-1/2 gal/sq.

Granules(Optional): — Granules applied at 50 lbs/sq. imbedded into one of the wet coats.

Class B

1. Deck: C-15/32

Incline: 1/2

Foam: — "Pro-Tech Urethane Foam" insulation, min 1 in. thick.

Base Coat: — "EC-100", at 1½-gal/100-ft.² followed immediately with "Pro-Tech Granules" (not UL Classified) at 50 lb/sq imbedded in wet coating.

Top Coat: — "EC-100", at 1½-gal/100-ft.².

2. Deck: C-15/32

Incline: 1/2

Foam: — "Pro-Tech Urethane Foam" or Polythane systems SH-200-25 insulation, min 2 in. thick.

Base Coat: — "EC-100", at 1½-gal/100-ft.² followed immediately with "Pro-Tech Granules" (not UL Classified) at 50 lb/sq imbedded in wet coating.

Top Coat: — "EC-100", at 1½-gal/100-ft.².

3. Deck: C-15/32

Incline: 1/2

Insulation: — NCFI Polyurethanes "10-001", 1 in. thickness.

Base/Top Coat: — "Pro-White" at 1½-gal/100-ft.² (two applications) plus Granules (50 lbs/sq) imbedded into one of the wet coats.

4. Deck: C-15/32

Incline: 1/2

Insulation: — NCFI Polyurethanes "10-001", 1 in. thickness.

Base/Top Coat: — "EC-100", at 1½-gal/100-ft.² (two applications)

5. Deck: C-15/32

Incline: 1/2

Foam: — Pro-Tech Products "10-011", 1-1/2 in. minimum thickness.

Coating: — Pro-Tech "EC-100" applied at a maximum of 3.7 gal/sq.

Surfacing: — Granules applied at 50 lbs/sq. embedded in wet top coating.

MAINTENANCE AND REPAIR SYSTEMS

Class A, B or C

1. Deck: NC

Incline: 1

Existing Roof System: — Class A, B or C roof covering system to retain the existing Class A, B or C classification when covered with:
Foam: — "Pro-Tech Urethane Foam" insulation, min 1 in. thick.
Base Coat: — "EC-100", at 1½-gal/100-ft.².
Top Coat: — "EC-100", at 1½-gal/100-ft.².

2. Deck: NC

Incline: 1-1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Class A, B or C classification when covered with:
Foam: — "Pro-Tech Urethane Foam" insulation, 1 in. thick.
Base Coat: — "EC-100", at 1½-gal/100-ft.².
Top Coat: — "EC-100", at 1½-gal/100-ft.².

3. Deck: C-15/32

Incline: 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Class A, B or C classification when covered with:
Foam: — "Pro-Tech Urethane Foam" insulation, min 1 in. thick.
Base Coat: — "EC-100", at 1½-gal/100-ft.² followed immediately with "Pro-Tech Granules" (not UL Classified) at 50 lb/sq imbedded in wet coating.
Top Coat: — "EC-100", at 1½-gal/100-ft.².

4. Deck: NC

Incline: 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Class A, B or C classification when covered with:
Foam: — "Pro-Tech Urethane Foam" or Polythane Systems "SH-200-25" insulation, min 1 in. thick.
Base Coat: — "EC-100", at 1½-gal/100-ft.².
Top Coat: — "EC-100", at 1½-gal/100-ft.².

5. Deck: C-15/32

Incline: 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Class A, B or C classification when covered with:
Foam: — "Pro-Tech Urethane Foam" or Polythane Systems "SH-200-25" insulation, min 2 in. thick.
Base Coat: — "EC-100", at 1½-gal/100-ft.² followed immediately with "Pro-Tech Granules" (not UL Classified) at 50 lb/sq imbedded in wet coating.
Top Coat: — "EC-100", at 1½-gal/100-ft.².

Class A

1. Deck: C-15/32

Incline: 1/4

Existing Roof System: — Class A, B or C roof covering system covered with:
Foam: — "Pro-Tech Products Urethane Foam" or Polythane Systems "SH-200-25" insulation, min 2 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Products Dry Mix" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water (4-1/2 gal.) spray applied per 100 sq ft.

2. Deck: C-15/32

Incline: 1/2

Impact: 1

Existing Roof System: — Class A, B or C roof covering system covered with:
Foam: — "Pro-Tech Urethane Foam" insulation only, min 1 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Dry Mix II" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water at (3-1/2 to 4-1/2 gal.) spray applied per 100 sq ft.

3. Deck: NC

Incline: Unlimited

Impact: 1

Existing Roof System: — Class A, B or C roof covering system covered with:
Foam: — "Pro-Tech Urethane Foam" insulation only, min 1 in. thick.
Coating: — Two or three coats "EC-100", at 1-1/4 gal/sq/coat with "Pro-Tech Granules" (not UL Classified) at 64 lb/sq imbedded into one of the wet coats.
Surfacing: — Mixture of "Pro-Tech Dry Mix" (40 lbs), Rohm & Haas MC-76 (1/2 gal), Rhone-Poulenc Colloid 622 (3/4 oz) and water at (3-1/2 to 4-1/2 gal.) spray applied per 100 sq ft.

Class B

1. Deck: C-15/32

Incline: 1/2

Existing Roof System: — Class A or B gravel (loose gravel may be removed) or smooth surfaced BUR covered with:
Foam: — Pro-Tech Products Inc. "10-011", 1½-in. minimum thickness.
Coating: — NCFI Polyurethanes "EnduraTech Q" or "EnduraTech R" applied at a maximum of 3.7-gal/100-ft.².
Surfacing: — No. 11 roofing granules at 45- lbs/100-ft.².
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