

Roofing Underlayments

Part 1 — General

1.01 Summary

- A. Section Includes: Grace Select self-adhering membrane as a sloped roof underlayment.
- B. Related Sections:
 - 1. Section 06100—Rough Carpentry
 - 2. Section 07220—Roof and Deck Insulation
 - 3. Section 07311—Asphalt Shingles
 - 4. Section 07313—Metal Shingles
 - 5. Section 07315—Slate Shingles
 - 6. Section 07317—Wood Shingles and Shakes
 - 7. Section 07320—Roof Tiles
 - 8. Section 07610—Sheet Metal Roofing
 - 9. Section 07620—Sheet Metal Flashing and Trim

1.02 References

- A. American Society for Testing and Materials (ASTM)
 - 1. D412 Test Methods for Rubber Properties in Tension
 - 2. D461 Standard Test Methods for Felt
 - 3. D903 Test Methods for Peel or Stripping Strength of Adhesive Bonds
 - 4. D3767 Standard Practice for Rubber—Measurement of Dimensions
 - 5. E96 Test Methods for Water Vapor Transmission of Materials

1.03 Submittals

- A. Manufacturer's product data sheet and product sample.

1.04 Quality Assurance

- A. Manufacturer Qualifications: Self-adhesive membrane roofing underlayment shall be manufactured and marketed by GCP Advanced Technologies-Conn., GCP Construction Products, Cambridge, MA or a firm with a minimum of 25 years experience in the production and sales of self-adhered membrane roofing underlayments.

1.06 Delivery, Storage and Handling

- A. The membrane and accessory products must be handled properly. Read all product labels and Safety Data Sheets (SDSs) for proper handling and disposal. Deliver all materials in manufacturer's unopened packages and store all materials under cover. Do not double stack palletized material.

Part 2 — Products

2.02 Manufacturers and Products

- A. Acceptable Products and Manufacturers: Grace Select manufactured by GCP Advanced Technologies –Conn., GCP Construction Products, Cambridge, MA.

2.03 Materials

- A. Grace Select is a cold-applied, self-adhering membrane composed of a high density, cross laminated polyethylene film coated on one side with a layer of rubberized asphalt adhesive. An embossed, slip resistant surface is provided on the polyethylene. GCP Select is interwound with a disposable silicone-coated release sheet. Membrane shall conform to the physical properties as listed in the chart below:

Property	Value	Test Method
Color	Gray-black	
Thickness, membrane	25 mil (0.64 mm)	ASTM D3767 method A
Tensile strength, membrane	250 psi (1720 kN/m ²)	ASTM D412 (Die C modified)
Elongation, membrane	250%	ASTM D412 (Die C modified)
Adhesion to plywood	3.0 lbs/in. width (525 N/m)	ASTM D903
Permeance (max)	0.05 perms (2.9 ng/m ² s Pa)	ASTM E96
Material weight installed (max)	0.14 lb/ft ² (0.7 kg/m ²)	ASTM D461

2.04 Accessories

- A. Accessory Products: Perm-A-Barrier®WB Primer.

Part 3 — Execution

3.02 Preparation

- A. Install the membrane directly on a clean, dry, continuous structural deck. Some suitable deck materials include plywood, wood composition, wood plank, metal, concrete, or gypsum sheathing. Remove dust, dirt, loose nails, and old roofing materials. Protrusions from the deck area must be removed. Decks shall have no voids, damaged, or unsupported areas. Repair deck areas before installing the membrane.
- B. Prime concrete, masonry surfaces and DensDeck® with Perm-A-BarrierWB Primer at a rate of 250–350 ft²/gal (6–8 m²/L). Prime wood composition and gypsum sheathing with Perm-A-BarrierWB Primer if adhesion is found to be marginal. (Refer to Technical Letter 12, Use on Oriented Strand Board (OSB) Roof Sheathing.) Apply at same rate.
- C. Priming is not required for other suitable surfaces provided that they are clean and dry.

3.03 Installation

- A. Install in strict accordance with manufacturer's printed application procedures, precautions, and limitations.

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