

## Roofing Underlayment Grace Ultra Specification

### Part 1 General

#### 1.01 Summary

A. Section Includes: Grace Ultra self-adhering sheet 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. D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection

5. D3767 Standard Practice for Rubber—Measurement of Dimensions

6. 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 W. R. Grace & Co.—Conn., Grace 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 Material Safety Data Sheets (MSDSs) 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 Products

- A. Acceptable Products and Manufacturers:  
Grace Ultra manufactured by W. R. Grace & Co.—Conn., Grace Construction Products, Cambridge, MA.

### 2.03 Materials

- A. Grace Ultra is a cold-applied, self-adhering membrane composed of a high density, cross laminated polyethylene film coated

on one side with a layer of butyl rubber adhesive. An embossed, slip resistant surface is provided on the polyethylene. Grace Ultra is interwound with a disposable silicone-coated release sheet. Membrane shall conform to the following physical properties:

### 2.04 Accessories

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

Property	Value	Test Method
Color	Gray-black	
Thickness, membrane	30 mil (0.76 mm)	ASTM D3767 method A
Tensile strength, membrane	250 psi (1720 kN/m <sup>2</sup> )	ASTM D412 (Die C modified)
Elongation, membrane	250%	ASTM D412 (Die C modified)
Low temperature flexibility	Unaffected @ -20°F (-29°C)	ASTM D1970
Adhesion to plywood	3.0 lbs/in width (525 N/m)	ASTM D903
Permeance (max)	0.05 perms (2.9 ng/m <sup>2</sup> s Pa)	ASTM E96
Material weight installed (max)	0.22 lb/ft <sup>2</sup> (1.1 kg/m <sup>2</sup> )	ASTM D461

## 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-Barrier WB Primer at a rate of 250–350 ft<sup>2</sup>/gal (6–8 m<sup>2</sup>/L). Prime wood composition and gypsum sheathing with Perm-A-Barrier WB 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.

[www.graceathome.com](http://www.graceathome.com)  
[www.graceconstruction.com](http://www.graceconstruction.com)

For technical assistance call toll free at 866-333-3SBM (3726)

Perm-A-Barrier is a registered trademark of W. R. Grace & Co.—Conn.  
DensDeck is a registered trademark of Georgia-Pacific Corporation.

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