

# Ultra

Self-adhered architectural roof and façade underlayment for applications requiring superior protection

---

## Description

Ultra roofing underlayment is composed of two waterproofing materials—an aggressive butyl rubber based adhesive backed by a layer of high density cross laminated polyethylene.

The product is 0.76 mm thick making it easy to handle and apply. The unique, advanced adhesive formulation offers premium adhesion to the roof deck, high quality laps, superior seal around roofing fasteners, and outstanding high temperature stability. The adhesive is backed by a protective plastic release liner that protects its adhesive quality. The release liner is easily removed allowing the adhesive to be bonded tightly to the roof deck. The membrane comes in a 18.4 m<sup>2</sup> roll, and measures 864 mm wide.

## Guidelines for Use

Ultra membrane can be used as a sloped roof underlayment to help protect against leakage from water that builds up behind ice dams, or from wind-driven rain in applications where the membrane must withstand the highest in-service temperatures for extended periods of time.

## High Temperature Applications

Ultra membrane is the appropriate product for all applications where superior heat resistance is needed. In addition, Ultra underlayment is the appropriate product for use under certain types of metal roofs (those employing copper, zinc, or Cor-Ten<sup>®</sup> panels). These metal roofs tend to readily conduct heat to the underlayment making them more likely to expose the membrane to high temperatures. It is up to the contractor and specifier to decide what level of performance is required based on the guidelines provided.

## Advantages

- **Superior adhesion** – The membrane bonds firmly to the substrate and forms high quality laps.
- **Self sealing** – The membrane meets key building code standards for fastener sealability of self-adhered underlayments.
- **Dual barrier protection** – Butyl rubber and polyethylene are combined to form a continuous water, air and vapor barrier providing maximum protection.
- **Heat Resistance** – The membrane is specially formulated and will resist temperatures up to 300 °F (149 °C) for extended periods of time—without degradation of the butyl adhesive.
- **Slip resistant surface** – The slip resistant surface maximizes traction for safety without compromising the water integrity of the laps.
- **Plastic release** – Plastic is easy to remove and easy to dispose of.
- **GCP expertise** – GCP is the recognized leader in self-adhered roofing underlayments and is the innovator and manufacturer of Grace Ice & Water Shield<sup>®</sup> and Perm-A-Barrier<sup>®</sup> Membranes.

## Supply

### ULTRA

Roll Length	21.3 m
Roll Width	864 mm
Roll Size	18.4 m <sup>2</sup>
Packaging	Corrugated cartons
Roll Weight	19.0 kg
Rolls per Pallet	25

## Physical Properties

PROPERTY	VALUE	TEST METHOD
Colour	Grey-Black	
Thickness, Membrane	0.76 mm	ASTM D 3767 Method A
Tensile Strength, Membrane	1720 kN/m <sup>2</sup>	ASTM D 412 (Die C Modified)
Elongation, Membrane	250%	ASTM D 412 (Die C Modified)
Low Temperature Flexibility	Unaffected @ -29°C	ASTM D 1970
Adhesion to Plywood	525 N/m	ASTM D 903
Permeance (Max)	2.9 ng/m <sup>2</sup> s Pa	ASTM E 96
Material Weight Installed (Max)	1.1 kg/m <sup>2</sup>	ASTM D 461
Adhesive	Butyl based	

\* Estimated values based on testing at a pressure differential of 75 Pa of a similar fully-adhered sheet air barrier material, Perm-A-Barrier<sup>®</sup> Wall Membrane, which has the same 4 mil polyethylene film as Ultra.

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

## Health and Safety

Read the Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GCP Applied Technologies or from our web site at [gcpat.com](http://gcpat.com).

## Installation Procedure

### Surface Preparation

Install Ultra membrane directly on a clean, dry, continuous structural deck. Some suitable deck materials include plywood, wood composition, wood plank, metal, concrete, or gypsum sheathing. For all other substrates, contact your local GCP Applied Technologies representative. 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.

Prime concrete and masonry surfaces with Bituthene B1 primer at a rate of 10 sqm/l. Priming is not required for other suitable surfaces provided that they are clean and dry.

### Membrane Installation

Apply Ultra membrane in fair weather when the air, roof deck, and membrane are at temperatures of 5 °C or higher. Apply roof covering material at temperatures of 5 °C or higher.

Cut the membrane into 3–5 m lengths and re-roll loosely. Tack/secure the end of the roll with a nail. Peel back 300–600 mm of release liner, align the membrane, and continue to peel the release liner from the membrane. Press the membrane in place with heavy hand pressure. Side laps must be a minimum of 90 mm and end laps a minimum of 150 mm. For valley and ridge application, peel the release liner, center the sheet over the valley or ridge, drape, and press it in place. Work from the center of the valley or ridge outward in each direction and start at the low point and work up the roof.

Alternatively, starting with a full roll of membrane, unroll a 1–2 m piece of membrane leaving the release liner in place. Align the membrane and roll in the intended direction of membrane application. Carefully cut the release liner on top of the roll in the cross direction being careful not to cut the membrane. Peel back about 150 mm of the release liner in the opposite direction of the intended membrane application exposing the black adhesive. Hold the release liner with one hand and pull the roll along the deck with the release liner, leaving the applied membrane behind.

Use the other hand to apply pressure on the top of the roll. Stop frequently to press the membrane in place with heavy hand pressure. When finished with the roll go back to the beginning, reroll and pull the remaining release paper from the material, finishing the installation.

Consistent with good roofing practice, install the membrane such that all laps shed water. Always work from the low point to the high point of the roof. Apply the membrane in valleys before the membrane is applied to the eaves. Following placement along the eaves, continue application of the membrane up the roof. The membrane may be installed either vertically or horizontally.

Product Shelf Life : 24 months from date of manufacture

## Precautions and Limitations

- Slippery when wet or covered by frost.
- Consistent with good roofing practice, always wear fall protection when working on a roof deck.
- Release liners are slippery. Remove from work area immediately after membrane application.
- Do not leave permanently exposed to sunlight. Maximum recommended exposure is 60 days.
- Do not install directly on old roof or wall coverings.
- Check with the manufacturer of the metal roof and wall panel system for any special requirements when used under these materials. Do not install directly under metal roof and wall coverings especially sensitive to corrosion, such as zinc, without providing proper ventilation.
- Provide proper roof insulation and ventilation to help reduce ice dams and to minimize condensation. Ultra underlayment is a vapor barrier.
- Repair holes, fishmouths, tears, and damage to membrane with a round patch of membrane extending past the damaged area 150 mm in all directions. If fasteners are removed leaving holes in the membrane, they must be patched. The membrane may not self-seal open fastener penetrations.
- Do not install fasteners through the membrane over unsupported areas of the structural deck, such as over the joints between adjacent structural panels.
- Due to its slight rubber-like odour, do not apply where the membrane is exposed to interior living space.
- Place metal drip edge or wood starter shingles over the membrane.
- Compatible with EPDMs (refer to Technical Letter 5, Chemical Compatibility). Also for use in tie-ins in EPDM with other GCP underlayments.
- Not compatible with polysulfides, flexible PVC or high concentrations of resin (pitch). For more information, refer to Technical Letter 5.

## Standard Compliance

Ultra meets the following standards:

- ICC ESR-1677 approval according to AC-48 Acceptance Criteria for Self-Adhered underlayments used as Ice Barriers
- Underwriters Laboratories, Inc. R13399 Class A fire classification under fiberglass shingles and Class C under organic felt shingles
- Underwriters Laboratories, Inc. Classified Sheathing Material Fire Resistance Classification Design Numbers P225, P227, P230, P237, P259, P508, P510, P512, P514, P701, P711, P717, P722, P723, P732, P734, P742, P824

**gcpat.uk | United Kingdom customer service: +44 (0) 1480 478421**

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

Bituthene is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2016 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Applied Technologies (UK) Ltd, 487-488 Ipswich Road, Slough, SL1 4EP

This document is only current as of the last updated date stated below and is valid only for use in the United Kingdom. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [www.gcpat.uk](http://www.gcpat.uk). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2023-02-24

[gcpat.uk/solutions/products/ultra](http://gcpat.uk/solutions/products/ultra)