

### TECHNICAL DATA SHEET

## DELTA®-STRATUS SA

Self-Adhered Water-resistive Barrier & Air Barrier with High UV Resistance

### MATERIAL

DELTA®-STRATUS SA is a 4-layer self-adhered water-resistive barrier (WRB) and air barrier with acrylic coating providing high UV resistance. Two layers of high strength spunbond polypropylene (PP) fabric are thermally bonded to a highly vapor permeable, watertight polymeric middle layer. The acrylic coating provides effective UV protection, allowing for the product to be exposed to sunlight for extended periods without being damaged. DELTA®-STRATUS SA maintains high vapor permeability and has a full surface coating of a high tack adhesive for bonding to common substrates. It has a split release liner for ease of application.

### PROPERTIES

DELTA®-STRATUS SA is a vapor permeable WRB, allowing moisture within the building enclosure to escape through the membrane via diffusion. Its permeability and air-tightness make it an ideal air and water-resistive barrier membrane for energy-efficient construction. The watertight membrane helps protect the building enclosure from damaging effects of moisture infiltration. It is an air barrier that meets the industry's most stringent standards. DELTA®-STRATUS SA is light-weight and tear-resistant. This membrane withstands the rigors of jobsites, extended UV exposure during construction, as well as tough wind and weather.

### APPLICATION

DELTA®-STRATUS SA is ideal for installations where extended exposure times are expected. DELTA®-STRATUS SA is installed outboard of the sheathing prior to the application of the final cladding system. Do not use sealants, flashings, products or chemicals that contain surfactants on DELTA® water-resistive and air barrier membranes because they can adversely affect the water hold-out properties of any PP spunbond-based water-resistive barrier. Such products may include asphaltic materials, various chemicals, acid-based silicones, cleaning compounds, and certain formulations of liquid flashings, e.g. specific STP-based materials. Always confirm compatibility with the manufacturer's published technical data sheets and with the manufacturer's technical department. DELTA® Accessories complete an air barrier and WRB system. It may be adhered to concrete, masonry, OSB, plywood, or exterior grade drywall.



### ICC ESR-2932 DELTA® Water-resistive Barriers

DELTA® products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For technical support, call our technical support team at 1-888-433-5824, ext: 326, or visit [www.dorken.com](http://www.dorken.com).

### Technical Data

|                                       |  |   |
|---------------------------------------|--|---|
| Product name                          | DELTA®-STRATUS SA  |   |
| Color                                 | gray   |   |
| Material                              | high strength spunbond polypropylene (PP) fabric/film combination with acrylic coating   |   |
| Adhesive coating                      | Full surface coating with vapor permeable pressure-sensitive adhesive  |   |
| Water vapor transmission              | 214 g/m <sup>2</sup> /24 h   | ASTM E96-05, Proc. A                                      |
|                                       | 343 g/m <sup>2</sup> /24 h   | ASTM E96-05, Proc. B                                      |
| Vapor permeance                       | 31 perms [grains/h/ft <sup>2</sup> /in Hg]   | ASTM E96-05, Proc. A                                      |
|                                       | 50 perms [grains/h/ft <sup>2</sup> /in Hg]   | ASTM E96-05, Proc. B                                      |
| Tensile strength                      | MD 107 lbf   | ASTM D5034  |
|                                       | XD 100 lbf   |   |
| Elongation at break                   | MD 38 %  | ASTM D5034  |
|                                       | XD 60 %  |   |
| 90° Peel adhesion                     | Pass   | AAMA 711-5.3 (ASTM D3330)                                 |
| Accelerated aging (UV)                | Pass   | AAMA 711-5.4  |
| Elevated temperature                  | Pass (Level 3)   | AAMA 711-5.5  |
| Thermal cycling                       | Pass   | AAMA 711-5.6  |
| Adhesion after water immersion        | Pass   | AAMA 711-5.8  |
| Air Leakage of Air Barrier Assemblies | < 0.2 L/(s·m <sup>2</sup> ) @ 75 Pa (0.04 cfm/ft <sup>2</sup> @ 1.57 lb/ft <sup>2</sup> )  | ASTM 2357-11  |
|                                       | Class A1   | CAN/ULC-S742-11   |
| Air permeance                         | < 0.02 l/(s x m <sup>2</sup> ) @ 75 Pa   | ASTM E2178<br>CAN/ULC-S741-08                             |
| Water resistance hydrostatic pressure | Pass 60 minute Grade D building paper equivalent   | ASTM D779-03  |
| Flame spread                          | 10   | ASTM E84-18   |
|                                       | NFPA Class A; IBC Class A  |   |
| Smoke developed                       | 90   | ASTM E84-18   |
|                                       | NFPA Class A; IBC Class A  |   |
| Service temperature                   | -40 °F to +176 °F (-40 °C to +80 °C)   |   |
| Application temperature               | Minimum 40 °F (5 °C)   |   |
| Roll weight                           | approx. 44 lb (20 kg)  |   |
| Roll length                           | 115 ft (35 m)  |   |
| Roll width                            | 4' 11" ft (1.5 m)  |   |
| UV (sunlight) exposure                | UV/ weather exposure up to 180 days in climate zones 3-8, and up to 150 days in climate zones 1-2. As per good building practice, cover any WRB as soon as possible  |   |
| DELTA® Accessories                    | DELTA®-MULTI BAND<br>2" x 82' (60 mm x 25m)<br>DELTA®-FLEX-BAND<br>4" x 33' (100 mm x 10 m)<br>6" x 33' (15 cm x 10 m)<br>9" x 33' (22 cm x 10 m)<br>12" x 33' (30 cm x 10 m)<br>DELTA®-FLASHING<br>6" x 75' (150 mm x 22.8 m)<br>DELTA®-FLASHING<br>9" x 75' (230 mm x 22.8 m)<br>DELTA®-FAS CORNER<br>DELTA®-TILEXX<br>310 ml (10.9 lf oz) / cartridge<br>DELTA®-HF PRIMER<br>1.3 gal. (5 L) / pail or<br>DELTA®-ADHESIVE LVC<br>4.72 gal. (17.9 L) / pail<br>DELTA®-ADHESIVE<br>4.72 gal. (17.9 L) / pail | Working temperature from 40 °F to 104 °F (+5 °C to 40 °C) |