

## TECHNICAL DATA SHEET

Sealection® 500 is a two component, open cell, spray applied, semi-rigid polyurethane foam system. This product is a fully water blown foam system with a low in-place density with excellent adhesion to various substrates and to itself. Sealection 500 incorporates the single phase solution technology developed by Demilec for excellent shelf life and consistent processing. Sealection 500 complies with the intent of the International Code Council's residential and commercial building codes for spray polyurethane foam plastic insulation.

| PHYSICAL PROPERTIES |   |  |
|---------------------|---|--|
| EN 1602             | Apparent density                              | 7.2 – 8 kg/m <sup>3</sup>                                    |
| EN ISO 4590         | Closed cells content                          | 7.1 %  |
| EN 12667            | Thermal Resistance (R-value)                  | @150 mm: 3.8 m <sup>2</sup> K/W                              |
| EN 1609, method B   | Water permeability surface with skin          | 19.2 kg/m <sup>2</sup>                                       |
|                     | Water permeability surface without skin       | 21.0 kg/m <sup>2</sup>                                       |
| EN ISO 11654        | Sound Absorption Coefficient                  | 0.70   |
| VOC                 | Release of dangerous substances               | The product does not contain or release dangerous substances |
| EN 826              | Compressive Strength @10 % linear compression | 11.4 kPa   |
| EN 14315-1 Annex F  | Substrate adhesion strength                   | 12.6 kPa   |

| FIRE TEST RESULTS |                  |         |
|-------------------|------------------|---------|
| EN 13501-1+A1     | Reaction to fire | Class E |

| REACTIVITY PROFILE |               |                |               |
|--------------------|---------------|----------------|---------------|
| Cream Time         | Gel Time      | Tack Free Time | End of Rise   |
| 1 – 2 seconds      | 3 – 4 seconds | 6 – 7 seconds  | 6 – 7 seconds |

| LIQUID COMPONENT PROPERTIES*                |                         |                                |
|---|-------------------------|--------------------------------|
| PROPERTY                                    | A-PMDI ISOCYANATE       | SEALECTION 500 RESIN           |
| Colour                                      | Brown                   | Amber                          |
| Viscosity @ 25°C                            | 180 - 220 MPas          | 150 - 300 MPas                 |
| Specific Gravity                            | 1.24 kg/dm <sup>3</sup> | 1.08 - 1.12 kg/dm <sup>3</sup> |
| Shelf Life of unopened drum properly stored | 12 months               | 12 months                      |
| Storage Temperature                         | 10 - 38°C               | 10 - 38°C                      |
| Mixing Ratio (volume)                       | 1:1                     | 1:1                            |

\*See SDS for more information.

| RECOMMENDED PROCESSING CONDITIONS*          |   |
|---|---|
| Initial Recirculating Setpoint Temperature  | 32 - 38°C   |
| Initial Primary Heater Setpoint Temperature | 43 - 54°C   |
| Initial Hose Heat Setpoint Temperature      | 43 - 54°C   |
| Initial Processing Setpoint Pressure        | 75 - 105 bar  |
| Substrate & Ambient Temperature             | > -5°C  |
| Moisture Content of Substrate               | ≤19%  |
| Moisture Content of Concrete                | Concrete must be cured, dry and free of dust and form release agents. |

\*Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the sprayed foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply Sealection 500 within specification.

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General Requirements: Equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate (PMDI) and polyol blend at adequate temperatures and spray pressures. Substrate must be at least 5 degrees above dew point, with best processing results when ambient humidity is below 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the polyurethane foam.

Sealection 500 must be separated from the interior of the building by an approved thermal barrier or an approved finish material equivalent to a thermal barrier in accordance with applicable codes. Sealection 500 must be sprayed at a minimum thickness of 75mm per pass. This product must not be used when the continuous service temperature of the substrate or foam is below -51°C or above 82°C. Sealection 500 should not be used in contact with bulk water, below grade or to cover flexible ductwork.

Disclaimer: The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.

