

## Technical Data Sheet Tuffbond 21018W

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### Product Description

Hernon<sup>®</sup> Tuffbond<sup>®</sup> 21018W adhesive/sealant is a two component, room temperature cure system. By changing the ratio of resin and hardener, the cured adhesive changes from a tough and flexible to a hard and rigid system.

### Typical Applications

- Tank lining
- Chemical resistant flooring
- Marine coating
- Underwater coating

### Product Benefits

- Excellent resistance to organic acids and bases
- Good mechanical properties
- Outstanding resistance to abrasion
- Non-critical mixing

### Typical Properties (Uncured)

| Property              | Part A      | Part B      |
|-----------------------|-------------|-------------|
| Base                  | Epoxy       | Amine       |
| Appearance            | White paste | Amber paste |
| Viscosity at 25°C, cP | 500,000     | 500,000     |
| Specific Gravity      | 1.21        | 1.01        |
| Mix Ratio by Weight   | 100         | 40 to 110   |

### Typical Properties (Cured)

| Property                                 | Value                         |
|--|-------------------------------|
| Working Life at 22°C (1qt), minutes      | 40-60                         |
| Operating Temp., °F                      | -65 to 300                    |
| Coefficient of Thermal Expansion         | 60 x 10 <sup>-6</sup> in/in°C |
| Thermal Conductivity                     | 0.16 K cal/mh°C               |
| Dielectric Strength at 20°C              | 17 KV/mm                      |
| Durometer Hardness, Shore D              | 79 (1:1 mix)                  |
| Shear Strength on Al, 7 day cure at 22°C | 3200 psi                      |

### General Information

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

### Storage

Tuffbond<sup>®</sup> 21018W should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 82°F (8°C to 28°C) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused material, do not return any material to its original container.

### Dispensing Equipment

Hernon<sup>®</sup> offers a complete line of semi and fully automated dispensing equipment. Contact Hernon<sup>®</sup> Sales for additional information.

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