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# Technical Data Sheet Tuffbond<sup>®</sup> 47771

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## Product Description

**Hernon**<sup>®</sup> **Tuffbond**<sup>®</sup> **47771** adhesive/sealant is a two component, 100% solid system, one to one ratio, room temperature cure system.

### **Typical Applications**

- Tank lining
- Chemical resistant flooring
- Marine coating
- Underwater coating
- Potting electrical components

### **Product Benefits**

- Excellent resistance to organic acids and bases.
- Good mechanical properties.
- Outstanding resistance to abrasion.
- Non-critical mixing.
- Excellent adhesion to a wide variety of substrates

## **Typical Properties (Uncured)**

Property	Resin	Hardener
Chemical Type	Ероху	Amine
Color	Black	Amber
Viscosity at 25ºC, cP	60,000 to 75,000	60,000 to 75,000
Mix Ratio	1 Part	1 Part
Specific gravity at 25°C	1.1839	1.0043
Flash point	See MSDS	See MSDS

# **Typical Properties (Cured)**

Property	Value
Working Life at 25°C, 1qt, minutes	40 to 60
Coefficient of thermal expansion, ASTM D696 ( $K^{-1}$ )	76 x 10 <sup>-6</sup>
Volume Resistivity, ohm-cm, ASTM D696	7.1 x 10 <sup>12</sup>
Glass Transition Temperature, (Tg) °C	71
Flash-Ignition Temperature, °C, ASTM D1929	360
Spontaneous-Ignition Temperature, °C, ASTM D1929	460
Tensile Strength, psi, ASTM D638	5700 to 7100
Shear Strength, psi, ASTM D1002	2500 to 3500
Hardness, Shore D, ASTM D2240	75
Temperature Range, ⁰C	-54 to 150

#### **Strength Properties at Different Temperatures**

(0.25 mm gap and 1.0 inch overlap on grit-blasted steel)

Temperature	Shear Strength (psi)
23°C (room temperature)	3,000 - 4,000
-55°C	2,500 – 3,500
80°C	2,000 - 3,000
120°C	700 – 1,300
155°C	700 – 1,300

### **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® 47771** 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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