



## NHT-5600™ Two-Part Epoxy Repair Cartridge



### DESCRIPTION:

**POLYGUARD NHT-5600™ Two-Part Epoxy Repair Cartridge** is a 100% solid, VOC free epoxy designed to repair FBE and other liquid coated pipe. The repair cartridges have a two component design and are available in a 50mL size. A dispensing gun is required for application.

### USES:

Repair or patch coating for FBE or other liquid coatings.

### ADVANTAGES:

- Fast touch, dry, and cure times
- High temperature cathodic disbondment resistance tested to a temperature of 175°F (80°C)
- Excellent adhesion characteristics
- Environmentally friendly
- Excellent abrasion and impact resistance
- Can be used as an abrasion resistant coating
- Isocyanate free
- High build (up to 50 mils in a single coat)
- Excellent chemical resistance

### APPLICATION:

The repair area shall have the surface roughened at least 1" around the location where the **NHT-5600™** is to be applied. 60 to 80 grit sandpaper or other appropriate abrasives should be used to prepare the surface and remove all sanding particles after abrading. Eject the coating using the **Polyguard Cartridge Gun** from the two component

tubes and mix until a uniform color is achieved. A **Polyguard Mixing Tip** can be used to mix the coating. Apply the properly mixed coating to the prepared surface with a brush, applicator pad or other approved method.

Ambient conditions for successful application include: relative humidity less than 85%; and temperature greater than 5°F (3°C) above the dew point. If ambient temperature is below 50°F (10°C) the surface *should be preheated*. *Cooler temperatures will extend cure times*. *Repair Cartridge should be kept warm*, minimum 65°F (18°C) to mix easily.

Typical properties of the **NHT-5600™** are:

PROPERTY	TYPICAL RESULTS
<b>Solids Content</b>	100%
<b>Base (unmixed) @ 77°F (25°C)</b> Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.57 87,200 cps White
<b>Hardener (unmixed) @ 77°F (25°C)</b> Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.07 12,000 cps Blue
<b>Mixed Material</b> Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.48 40,000 cps Blue
<b>Mix Ratio (by volume)</b>	3 Parts Base : 1 Part Hardener
<b>Cathodic Disbondment Testing</b> ASTM G8 (28 days @ 75°F (24°C)) ASTM G42 (28 days @ 175°F (80°C))	2.2 mm 5.0 mm
<b>Hardness (Shore D)</b>	85 +/- 2
<b>Impact Resistance (ASTM G14)</b>	57.9 Inch-Pounds (6.5 Joules)
<b>Adhesion (ASTM D4541)</b>	5250 psi
<b>Penetration @ 175°F (ASTM G17)</b>	7.3%
<b>Hot Water Soak (NACE RP 0394)</b>	Adhesion Rating: 1
<b>Holiday Detection (based on minimum specified mil thickness)</b>	125 volts/mil
<b>Theoretical Coverage</b>	14 ft <sup>2</sup> per liter @ 30 mils
<b>Recommended Thickness</b>	25 – 30 mils
<b>Service Temperature</b>	-40°F to 175°F (-40°C to 80°C)
<b>Recoat Window</b> @ 77°F (25°C)	Less than 2 hours
<b>Handling Times</b> Surface Temperature @ 77°F (25°C) Surface Temperature @ 97°F (36°C)	3 hours 1 hour

#### PRECAUTIONS:

This material is sold by **Polyguard Products, Inc.** only for the purposes described in this literature. Any other use of the products is the responsibility of the purchaser and **Polyguard Products** does not warrant nor will be responsible for any misuse of these products. **Polyguard Products** will replace material not meeting our published specifications within one year from date of sale.

#### HEALTH AND SAFETY:

All **Polyguard Products** Safety Data Sheets (SDS) and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use, health, safety, and disposal of the product.

#### ACCESSORIES:



Epoxy Dispensing Gun



Disposable Applicator Pad