

NHT-5600™ Two-Part Epoxy Coating



DESCRIPTION:

NHT-5600™ is a 100% solid, VOC free epoxy designed for extended pot life, lower heat generation in the bucket, while maintaining a cure time comparable to other epoxies.

USES:

Protection girth welds, exposed valves, fittings, and piping which is not insulated, and for coating IRO applications. Provides pipe protection for pipes under road crossings, in tunnels, and in casings. Polyguard has a system design for the use of RG-2400™ on uninsulated pipes pulled through road crossings.

ADVANTAGES:

- Extended Pot Life (15 – 25 minutes @ 97°F)
- Gradual Controlled Chemical Reaction
- High temperature resistance tested to a temperature of 175°F (80°C)
- Fast touch, dry, and cure times
- Excellent adhesion characteristics
- No offensive vapors or fumes
- Environmentally friendly
- Excellent abrasion and impact resistance
- Isocyanate free
- High build (up to 50 mils in a single coat)
- Excellent chemical resistance

APPLICATION:

- **NHT-5600™** must be applied to clean dry surface only.
- Ambient conditions for successful application include: relative humidity less than 85%; and temperature greater than 5°F (3°C) above the dew point.
- Application temperature range is 50°F (10°C) to 175°F (80°C).
- If substrate temperature is below 50°F (10°C), preheating is required to achieve cure.
- Base and hardener material should be kept warm, minimum 65°F (18°C) to mix easily.
- Stir the individual base and hardener components separately until they are a uniform consistency. Add the base into the hardener and continue to stir the mixture until an even color is achieved and make sure all the material is scraped from the sides of the containers.

Apply thoroughly mixed epoxy by brush, roller, or trowel.

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.

MATERIAL SAFETY DATA:

All **Polyguard Products** Material Safety Data Sheets (MSDS) 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.

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

Property	Typical Results
Solids Content	100%
Base (unmixed) @ 77°F (25°C) Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.57 87,200 cps White
Hardener (unmixed) @ 77°F (25°C) Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.07 12,000 cps Blue
Mixed Material Specific Gravity Viscosity (75°F, Spindle # 7, 10 RPM) Color	1.48 40,000 cps Blue
Mix Ratio (by volume)	3 Parts Base : 1 Part Hardner
Hardness (Shore D)	85 +/- 2
Impact Resistance (ASTM G14)	57.9 Inch-Pounds (6.5 Joules)
Adhesion (ASTM D4541)	5250 psi
Penetration @ 175°F (ASTM G17)	7.3%
Hot Water Soak (NACE RP 0394)	Adhesion Rating: 1
Holiday Detection (based on minimum specified mil thickness)	125 volts/mil
Coverage	14 ft ² per liter @ 30 mils
Recommended Thickness	25 – 30 mils
Surface Preparation Standard Profile	Near White NACE 2, SSPC SP-10 2.5 mils to 5 mils (62.5 microns to 127 microns)
Recoat Window @ 77°F (25°C)	Less than 2 hours
Cure Times Pot Life @ 77°F (25°C) Pot Life @ 97°F (36°C) Handling Time @ 77°F (25°C) Handling Time @ 97°F (36°C)	30 – 40 minutes 15 – 25 minutes Minimum of 3 hours 2 hours

DEMONSTRATION ON FIELD GIRTH WELD – FBE COATED PIPE

