



NHT-5600™ Two-Part Epoxy Pipeline Coating

DESCRIPTION:

NHT-5600™ is a 100% solid, VOC free epoxy designed to work in conjunction with FBE coated pipe and is specially formulated for extended pot life while maintaining a cure time comparable to other epoxies.

USES:

Protection of pipeline field joint girth welds, valves, fittings, repairs to FBE coated pipe, coating for directional drill (ARO) and road bore pipe, and for coating rehabilitation of existing pipelines.

ADVANTAGES:

- Extended Pot Life (15 – 25 minutes @ 97°F)
- Excellent high temperature (175°F (80°C)) cathodic disbondment resistance
- Fast touch, dry, and cure times
- Excellent adhesion characteristics (compliments FBE coated pipe)
- High abrasion suitable for horizontal drilling applications
- Impact resistant
- May be used as ARO coating
- Meets AWWA C210-07 Liquid Epoxy Coating Systems for Steel Water Pipelines
- 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.
- Service temperature -40° F to 175° F (-40° C to 80° C) Application temperature range is -30°F to 212°F (-34°C to 100°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 60°F (16°C) to mix easily.
- Stir the individual base and hardener components separately until they are a uniform consistency. Add the hardener into the base 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, spray, or other approved method.

NHT-5600™

Properties:

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 Hardener
Cathodic Disbondment Testing ASTM G8 (28 days @ 75°F (24°C)) ASTM G42 (28 days @ 175°F (80°C))	3.0 mm 6.0 mm
Hardness (Shore D)	85 +/- 2
Impact Resistance (ASTM G14)	57.9 Inch-Pounds (6.5 Joules)
Adhesion (ASTM D4541)	≥3200 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
Theoretical 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 3 hours 1 hour

STORAGE:

Minimum 24 months when stored in original containers @40-deg F (4-deg C). On job site where temperatures are below 50-deg F (10-deg C) product should be kept warm to mix properly (60-deg F to 85-deg F (16-deg C to 30-deg C) optimal). Do not allow material to freeze.

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.

CLEANING:

Clean equipment with MEK, Acetone or equivalent solvent.

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.