

NHT-5600[®]

Product Overview



NHT-5600™ 2-Part Epoxy is a 100% solid, VOC-free epoxy designed to work in conjunction with FBE coated pipe and is specially formulated to provide superior adhesion to steel while the substrate is under cathodic protection.

Polyguard 2-Part Epoxies are used to provide 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.



**Excellent high temperature
185°F (85°C) cathodic
disbondment resistance**



**Fast touch, dry and
cure times**



**Excellent adhesion
characteristics (complements
FBE coated pipe)**



**Impact and abrasion resistant
suitable for horizontal
directional drilling**



**Meets AWWA C210 Liquid
Epoxy Coating Systems
for steel water pipes**



**Meets CSA Z245-30 Field-
Applied External Coatings for
Steel Pipeline Systems**

Property	Typical Results
Solids Content	100%
Base @ 70°F / 21°C Specific Gravity Viscosity (70°F, Spindle #7, 2 RPM) Color	10.15 lbs/gal / 1.22 g/mL 330,000 cps Light Gray
Hardener @ 70°F / 21°C Specific Gravity Viscosity (70°F, Spindle #7, 2 RPM) Color	9.95 lbs/gal / 1.19 g/mL 100,000 cps Blue
Mixed Material Viscosity (70°F, Spindle #7, 2 RPM) Color	250,000 cps Blue
Mix Ratio (Base:Hardner) By Volume By Weight	3:1 3.13:1
Cathodic Disbondment Testing ASTM G8 – 28 days @ 75°F / 24°C ASTM G42 – 28 days @ 175°F / 80°C	1.4 mm 4.0 mm
Hardness (Shore D)	85 ± 2
Impact Resistance (ASTM G14)	43 in-lbf / 4.9 Joules
Adhesion to Bare Steel (ASTM D4541)	≥ 4500 psi
Penetration @ 175°F (ASTM G17)	6.4%
Hot Water Soak (NACE RP 0394)	Adhesion Rating:1
Holiday Detection (based on minimum specified mil thickness)	125 volts/mil / 5 volts/μm
Theoretical Coverage	14 ft ² per liter @ 30 mils 1.3 m ² per liter @ 762 μm
Thickness – Welds and Coating Repair Recommended Minimum – Maximum	25 – 40 mils / 635 – 1016 μm 20 – 70 mils / 508 – 1778 μm
Thickness – High Abrasion (Bore Pipe) Recommended Minimum – Maximum	45 – 65 mils / 1143 – 1651 μm 40 – 70 mils / 1016 – 1778 μm
Surface Preparation Standard Profile	Near White Metal Blast NACE 2, SSPC SP-10 2.5 – 5 mils / 62 – 127 μm
Recoat Window @ 77°F / 25°C	Less than 2 hours
Cure Times Pot Life, 150g @ 70°F / 21°C Pot Life, 150g @ 97°F / 36°C Handling Time @ 77°F / 25°C Handling Time @ 97°F / 36°C	18 minutes 6 minutes 3 hours 1 hour

contact us



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