

# 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
<b>Solids Content</b>	100%
<b>Base @ 70°F / 21°C</b> Specific Gravity Viscosity (70°F, Spindle #7, 2 RPM) Color	10.15 lbs/gal / 1.22 g/mL 330,000 cps Light Gray
<b>Hardener @ 70°F / 21°C</b> Specific Gravity Viscosity (70°F, Spindle #7, 2 RPM) Color	9.95 lbs/gal / 1.19 g/mL 100,000 cps Blue
<b>Mixed Material</b> Viscosity (70°F, Spindle #7, 2 RPM) Color	250,000 cps Blue
<b>Mix Ratio (Base:Hardner)</b> By Volume By Weight	3:1 3.13:1
<b>Cathodic Disbondment Testing</b> ASTM G8 – 28 days @ 75°F / 24°C ASTM G42 – 28 days @ 175°F / 80°C	1.4 mm 4.0 mm
<b>Hardness (Shore D)</b>	85 ± 2
<b>Impact Resistance (ASTM G14)</b>	43 in-lbf / 4.9 Joules
<b>Adhesion to Bare Steel (ASTM D4541)</b>	≥ 4500 psi
<b>Penetration @ 175°F (ASTM G17)</b>	6.4%
<b>Hot Water Soak (NACE RP 0394)</b>	Adhesion Rating:1
<b>Holiday Detection (based on minimum specified mil thickness)</b>	125 volts/mil / 5 volts/μm
<b>Theoretical Coverage</b>	14 ft² per liter @ 30 mils 1.3 m² per liter @ 762 μm
<b>Thickness – Welds and Coating Repair</b> Recommended Minimum – Maximum	25 – 40 mils / 635 – 1016 μm 20 – 70 mils / 508 – 1778 μm
<b>Thickness – High Abrasion (Bore Pipe)</b> Recommended Minimum – Maximum	45 – 65 mils / 1143 – 1651 μm 40 – 70 mils / 1016 – 1778 μm
<b>Surface Preparation</b> Standard Profile	Near White Metal Blast NACE 2, SSPC SP-10 2.5 – 5 mils / 62 – 127 μm
<b>Recoat Window</b> @ 77°F / 25°C	Less than 2 hours
<b>Cure Times</b> 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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