



Neopoxy International  
27057 Industrial Blvd.  
Hayward, California 94545  
Phone (510) 782-1290  
Fax (510) 782-1292  
[www.neopoxy.us](http://www.neopoxy.us)

## NeoPoxy NPR-4401 Epoxy Resin Properties

NPR-4401 is a long gel time, corrosion resistant; epoxy resin designed to suite the special handling requirements of various reinforced pressure and gravity pipeline rehabilitation methods. Suitable for raw water services. Excellent for storm water rehabilitations and many other municipal applications. Cure with supplemental heat, via steam/air or hot water.

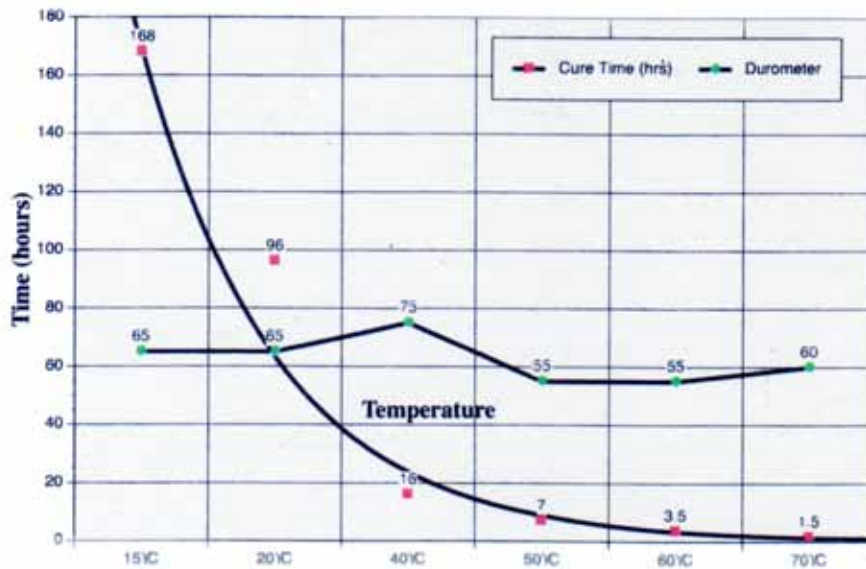
Specific Gravity (Resin).....	1016-1020 G/ml
Weight Per Gallon (Resin).....	9.78-9.98 Pounds
Specific Gravity (Hardener) .....	1.51-1.55 G/ml
Weight Per Gallon (Hardener).....	12.66-12.86 Pounds
Specific Gravity (Mixture).....	1.32-1.34 G/ml
Mix Ratio. ....	1:1
Weight Per Gallon (Mixture).....	11.0-11.2 Pounds
Viscosity (Brookfield LV), 20°C@20 rpm, spindle #4	
Resin.....	11000-15000 cPs
Hardener .....	3800-4200 cPs
Resin/Hardener Mixture.....	5500-7000 cPs
Thixotropic Index (2/20 rpm) .....	>3.0
Pot Life, 100g@20°C .....	13-15 Hours
Gel Time, 4kg@20°C .....	7-8 Hours
Flexural Modulus (ASTM D 790) .....	650,000 psi (4481 MPa)
Design Modulus for CIPP .....	200,000 psi (1378 MPa)
Flexural Strength (ASTM D 790) .....	7,900 psi (54 Mpa)
Hardness (Shore D) 100g .....	>80

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### NeoPoxy NPR-4401 Epoxy Cure Time Vs. Temperature

NPR-4401 is designed for the rehabilitation of natural gas and municipal sewer pipelines. It achieves excellent non-drain properties with rapid wet through of reinforcing materials. High integrity composites result from the combination of these two properties.



**15°C 7 days (65 durometer) 20°C 4 days (65 durometer) 40°C 16 hrs (75 durometer)  
50°C 7 hrs (55 durometer) 60°C 3.5 hrs (55 durometer) 70°C 1.5 hrs (60 durometer)**

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