



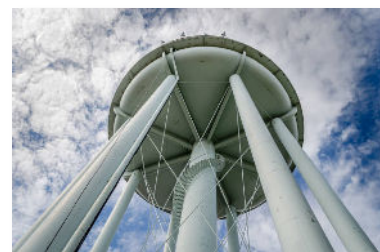
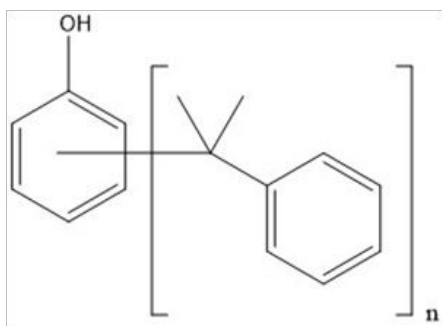
# NEVOXY®

*We Make Your Epoxies Better*



# NEVOXY® EPX Series

Aromatic & Hydroxyl Functionalized Liquid Resin



**Three grades and options designed to optimize performance**

**NEVOXY® EPX-L2**

**NEVOXY® EPX-L**

**NEVOXY® EPX-LH**

## Applications

- Protective and marine coatings
- Industrial maintenance coatings
- Epoxy floor coatings
- Pipe coatings
- Concrete primer sealants
- Primer, intermediate, or topcoat
- High solids, solvent, and solvent free systems
- Substitution for other plasticizer chemistries

## Features

- Low viscosity
- High solids/low VOC's
- Light color
- High aromaticity
- OH functionality
- Hydrophobic
- Excellent compatibility in epoxy resins and curing agents

## Benefits

- Improved flexibility
- Viscosity reduction
- Extended re-coat window
- Improved substrate and intercoat adhesion
- Improved chemical, corrosion, and water resistance
- Enhanced flow and leveling
- Improved pigment/filler wetting and dispersion
- Pot life adjustment
- Reduced compounded cost



## NEVOXY® EPX Series Properties Chart

Properties	Test Method	EPX-L2	EPX-L	EPX-LH
Appearance	Visual	Clear liquid	Clear liquid	Clear liquid
Color Gardner (straight)	ASTM D1544	1.0	1.0	1.5
Specific Gravity, 25°C	ASTM D891	1.00	1.02	1.02
Viscosity Brookfield, cps, 25°C	ASTM D2196	130	1000	2350
Hydroxyl Number	ASTM E222	50	65	98
Molecular Weight, Mn, Mw/GPC	ASTM D5296	Mn: 230 Mw: 250	Mn: 240 Mw: 280	Mn: 250 Mw: 300

- Property values represent typical results only and are not to be considered specifications.
- Compatible with solvents & solvent free epoxies



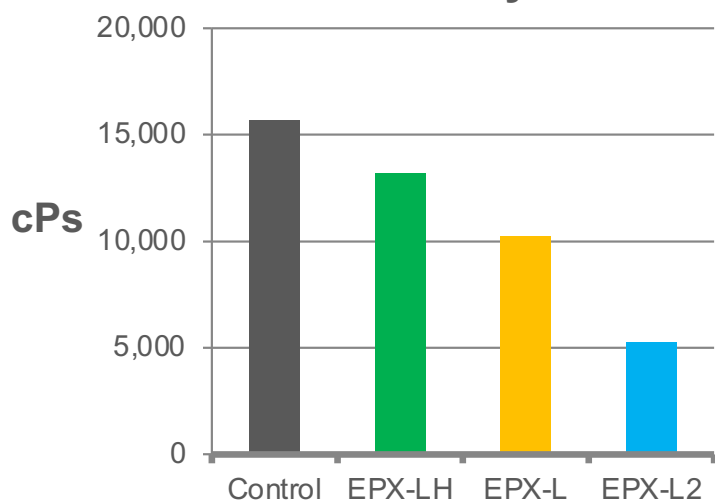


## Solubility Chart

		S = Soluble I = Insoluble	EPX-L2		EPX-L		EPX-LH	
Solvents		Weight % Resin	20%	50%	20%	50%	20%	50%
Hydrocarbons	Aliphatic	n- Hexane	S	S	S	S	S	S
		White Spirits (17% Aromatic)	S	S	S	S	S	S
	CycloAliphatic	Cyclohexane	S	S	S	S	S	S
	Aromatic	Toluene	S	S	S	S	S	S
		Xylene	S	S	S	S	S	S
	Chlorinated	Carbon Tetrachloride	S	S	S	S	S	S
		1,2 - Dichloroethane	S	S	S	S	S	S
		Monochlorobenzene	S	S	S	S	S	S
Alcohols		Isopropyl Alcohol	S	S	S	S	S	S
		n-Butanol	S	S	S	S	S	S
		Cyclohexanol	S	S	S	S	S	S
Ketones		Acetone	S	S	S	S	S	S
		MEK	S	S	S	S	S	S
		MIBK	S	S	S	S	S	S
		Diacetone Alcohol	S	S	S	S	S	S
		Cyclohexanone	S	S	S	S	S	S
Esters		Ethyl Acetate	S	S	S	S	S	S
		Butyl Acetate	S	S	S	S	S	S
Esters and Glycol Esters		2 - Ethoxy Ethanol	S	S	S	S	I	S
		2- Butoxy Ethanol	S	S	S	S	I	I
		P- Dioxane	S	S	S	S	S	S

## NEVOXY® EPX Series offer you the options

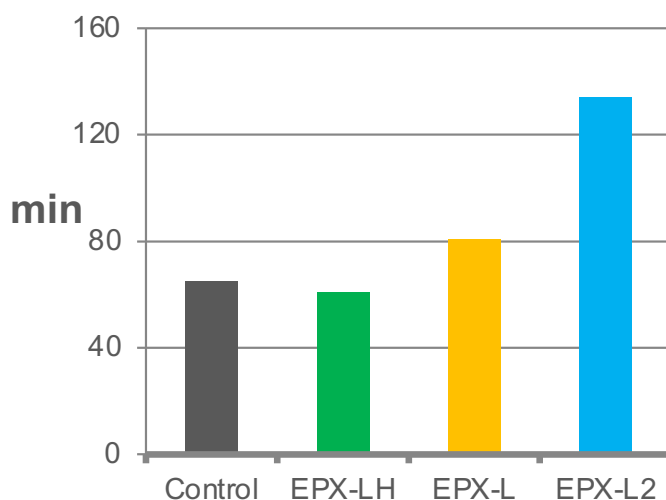
### Viscosity



\* Epoxy resin: NEVOXY® = 80: 20

\* 25°C, #21 Spindle

### Pot Life

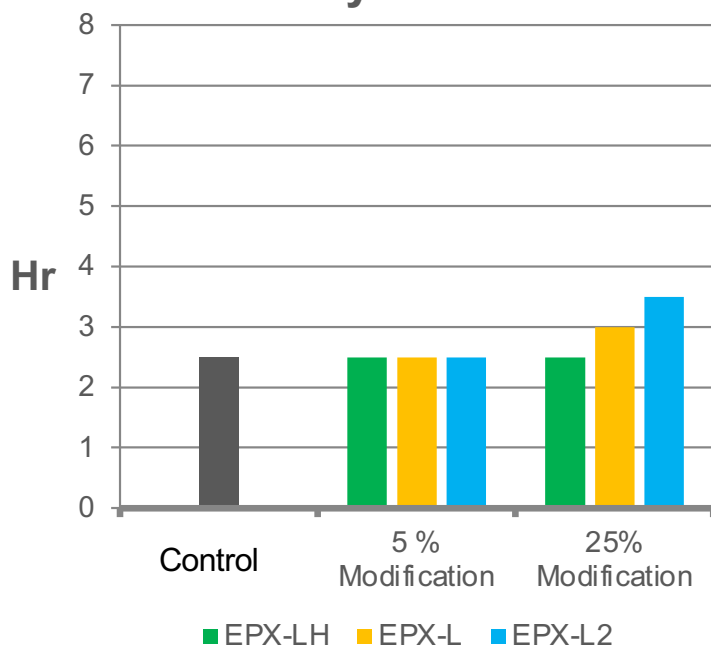


\* Epoxy resin: NEVOXY® = 80: 20

\* Test by gel timer

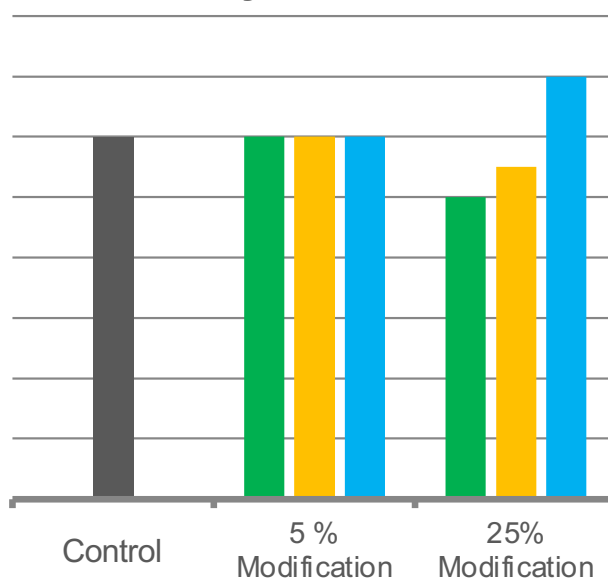
- Low viscosity liquid resins enable the adjustment of required processing and product viscosity.
- In general an increase in the OH content of NEVOXY® liquid resin will shorten the pot life.
- An association formed between amine and phenolic -OH will accelerate the curing.

### Dry to Touch



■ EPX-LH ■ EPX-L ■ EPX-L2

### Dry to Handle



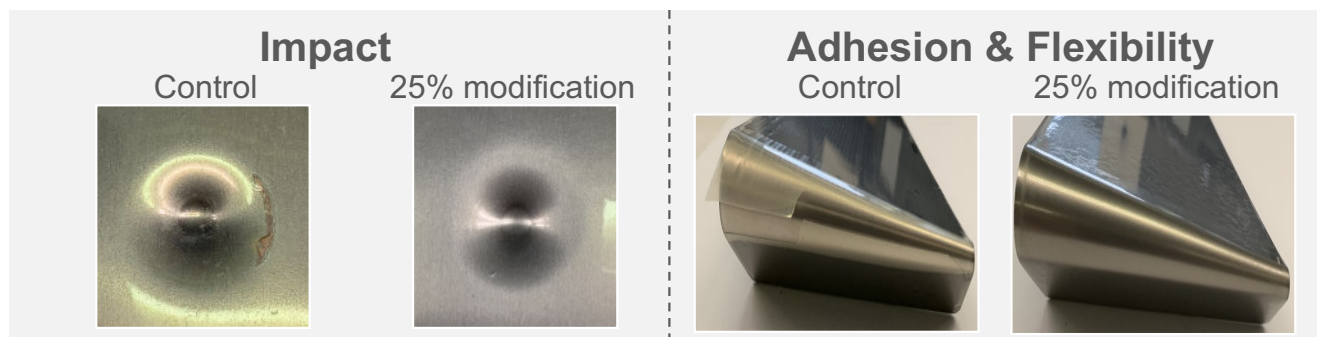
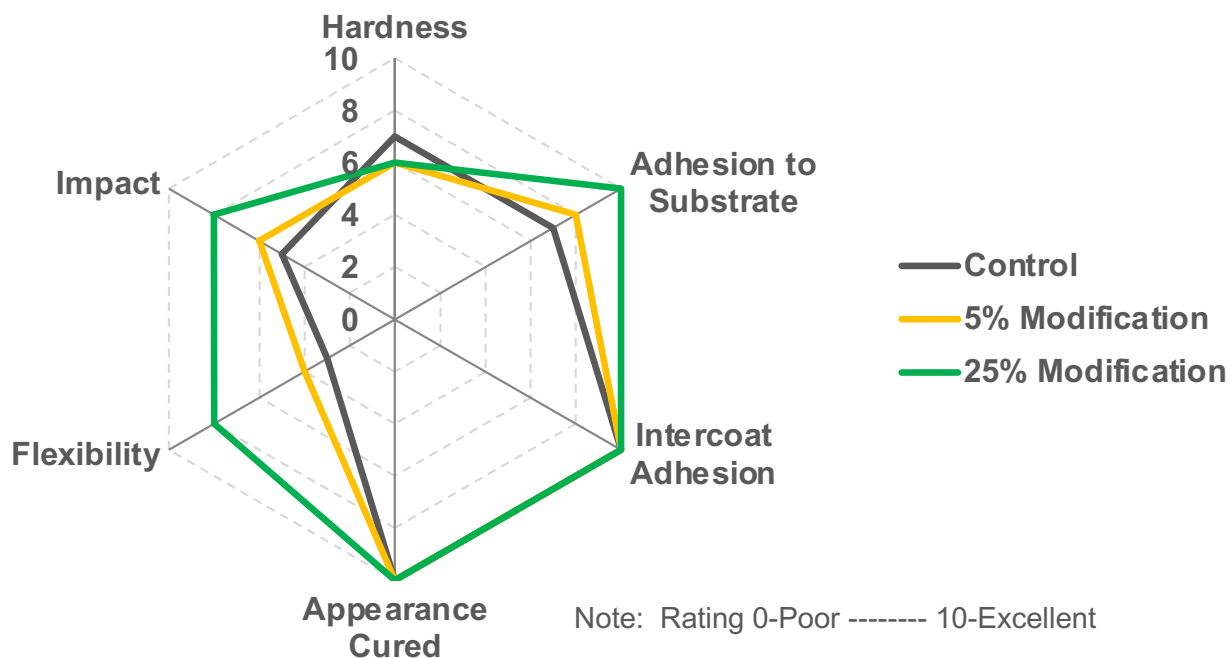
■ EPX-LH ■ EPX-L ■ EPX-L2

- Wide modification range 5% to 25% with minimal effects to Dry Times.
- Theoretical increase of the epoxy equivalent weight by adding a NEVOXY® leads to less demand for cost intensive hardener.



# Performance Properties

## NEVOXY® vs Control in Formulated Epoxy Mixture



### 24 hr Chemical Resistance Testing

Chemicals	Control	5% NEVOXY®	25% NEVOXY®
HCl 3%	10	10	10
H <sub>2</sub> SO <sub>4</sub> 10%	10	10	10
Acetic Acid 10%	6	8	10
Ammonia 3%	10	10	10
NaCl 4%	10	10	10
Xylene	8	8	9
Mineral Spirits	10	10	10
Motor Oil	10	10	10

- NEVOXY® improves the resistance of epoxy systems to diluted chemicals and solvents.

# NEVILLE CHEMICAL COMPANY

*We Make Your Epoxies Better*

Contact us for details on how we can assist you on your next product development!

*Neville's Hydrocarbon Resins are used extensively in the formulation of industrial products. Neville offers a broad range of HCR Chemistry Families in a variety of grades. Neville is recognized as a reliable supplier of value added quality resins with a proven track record of customer satisfaction, service, technical support and partnering with both suppliers and customers for continuous product improvement.*



For more information, please visit [www.nevchem.com](http://www.nevchem.com)

**Neville Chemical Company**

2800 Neville Road  
Pittsburgh, PA 15225

*\* Although the information and recommendations set forth herein are presented in good faith, Neville Chemical Company ("Neville") makes no representations or warranties as to the completeness or accuracy thereof. You must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment, or formulation in conflict with any patent, and we make no representations or warranties, express or implied, that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE. Safety Data Sheets providing safety precautions that should be observed when handling and storing our products are available online or by request. You should obtain and review available material safety information before handling our products. If any materials mentioned are not our products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed. © 2008 Neville. Neville brands referenced herein are trademarks of Neville or are being used under license. Non-Neville brands referenced herein are trademarks of their respective owners.*

