

Product Data Sheet

Thioplast™ EPS 80

Status:
October 2019

Liquid polysulfide polymer with epoxy end groups

Description	Thioplast™ EPS 80 is an epoxy terminated, liquid polysulfide polymer. The polysulfide backbone is terminated by aromatic epoxy end-groups. Thioplast™ EPS 80 is used for manufacturing of flexible, crack bridging and corrosion-resistant coatings for concrete and steel. Furthermore, Thioplast™ EPS 80 is applied for the formulation of adhesives, sealants and as reactive diluents.										
Properties¹⁾ <small>1) Typical properties, not to be construed as product specifications</small>	<table><tr><td>Appearance</td><td>clear, amber liquid</td></tr><tr><td>Epoxy equivalent weight</td><td>approx. 310 g/eq</td></tr><tr><td>Epoxy-oxygen content</td><td>approx. 5.0</td></tr><tr><td>Viscosity (25 °C)</td><td>approx. 7.5 Pas</td></tr><tr><td>Specific weight</td><td>1.20 kg/m³</td></tr></table>	Appearance	clear, amber liquid	Epoxy equivalent weight	approx. 310 g/eq	Epoxy-oxygen content	approx. 5.0	Viscosity (25 °C)	approx. 7.5 Pas	Specific weight	1.20 kg/m ³
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Application Curing	<p>Thioplast™ EPS 80 is primarily used in metal or concrete coatings to improve the flexibility, impact and thermal shock resistance as well as the resistivity against chemicals, oils, corrosion and low-temperature cracks. Thioplast™ EPS 80 is compatible with most Bisphenol A, A/F, F and Novolac resins and can also be used in epoxy-based adhesives and sealant formulations. As with any product, the use of Thioplast™ EPS 80 in a given application must be tested (including, but not limited to field testing) in advance by the user to determine suitability.</p> <p>Thioplast™ EPS 80 is used in two-component systems and can be cured at room temperature. Typical hardeners are aliphatic and cycloaliphatic amines. Compared to the aliphatic epoxy-terminated Thioplast™ EPS grades, Thioplast™ EPS 80 features a significantly increased reactivity and therefore a reduced pot-life. Depending on the formulation, Thioplast™ EPS 80 can cure completely within a few hours.</p> <p>The final properties of the formulation strongly depend on the ingredients and the drying procedure utilized.</p>										
Packaging	Thioplast™ EPS 80 is available in 200 Liter drums. Other packages upon request.										
Storage	Protect against contact with air, moisture and temperatures over 30°C during transportation and storage. Containers should be firmly sealed after each use. Under appropriate storage conditions the shelf life of this product is 6 months										
Handling	Full information on the safe handling of Thioplast™ EPS 80 is available in the Material Safety Data Sheet (MSDS).										

Legal Disclaimer: All information is based upon tests and data believed to be reliable, however, it is the user's responsibility to determine the suitability for his own use of the products described here. Nothing herein contained is to be construed as permission or as a recommendation to infringe any patent. All orders accepted shall be subjected to the standard conditions of sales of the manufacturing company, Nouryon Functional Chemicals GmbH, Greiz, Germany.

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