

Product Data Sheet

Thioplast™ EPS 80

Status:
 December 2018

Epoxidized liquid Polysulfide Pre-polymer

| | | | | | | | | | | | |
|---|--|-------------------------|-------------|-------------|---------------------|--------|-----------------|-----------------------------|-----------|----------------------------|-------------|
| Intended use | Formulation of flexible and corrosion-resistant coatings, adhesives and sealants | | | | | | | | | | |
| Description | Liquid Polysulfide Pre-polymer, end-capped by Diglycidyl-ether of Bisphenol A (DGEBA). Reactive diluent is a 1,4-Butanediol diglycidyl-ether. | | | | | | | | | | |
| Properties¹⁾ <small>1) Typical properties, not to be construed as product specifications</small> | <table> <tr> <td>Viscosity (25°C) [Pas]:</td> <td>approx. 7.5</td> </tr> <tr> <td>Appearance:</td> <td>Clear, amber liquid</td> </tr> <tr> <td>Color:</td> <td>light yellowish</td> </tr> <tr> <td>Epoxy-oxygen content [wt%]:</td> <td>approx. 5</td> </tr> <tr> <td>Equivalent weight [g/equ]:</td> <td>approx. 310</td> </tr> </table> | Viscosity (25°C) [Pas]: | approx. 7.5 | Appearance: | Clear, amber liquid | Color: | light yellowish | Epoxy-oxygen content [wt%]: | approx. 5 | Equivalent weight [g/equ]: | approx. 310 |
| Viscosity (25°C) [Pas]: | approx. 7.5 | | | | | | | | | | |
| Appearance: | Clear, amber liquid | | | | | | | | | | |
| Color: | light yellowish | | | | | | | | | | |
| Epoxy-oxygen content [wt%]: | approx. 5 | | | | | | | | | | |
| Equivalent weight [g/equ]: | approx. 310 | | | | | | | | | | |
| Application | <ul style="list-style-type: none"> • Thioplast EPS80 could be used in application of flexible, crack bridging and corrosion-resistant coatings for concrete and steel. • Furthermore, Thioplast EPS80 is applied in formulations of adhesives, sealants and is being used as flexible reactive diluents for high viscos Epoxies. • Thioplast EPS80 combines the outstanding chemical / physical properties of Thioplast G, liquid Polysulfide polymers, with the benefits of the Epoxy-chemistry. <p>Further advantages of Thioplast EPS80 are:</p> <ul style="list-style-type: none"> - Improve the flexibility of standard Bisphenol A, A/F and F based Epoxies - Improve the impact and thermal shock resistance - Excellent water and corrosion resistance - Resistance to a variety of aggressive chemicals, fuels and other oil products. - Thioplast EPS80 is used as additive in two-component Epoxy-systems. Curing at room and elevated temperature (max. temp. approx. 150C/300F) - Typical curatives are aliphatic and cycloaliphatic amines. - Thioplast EPS80 is chemically compatible with most of Bisphenol A, A/F, F and Novolac-Epoxies. | | | | | | | | | | |
| Packaging | Thioplast EPS80 is available in 200 L drums or 1000L IBC. | | | | | | | | | | |
| Storage | Thioplast EPS80 is a reactive Pre-polymer. Protection against contact with air, moisture and temperatures over 30C/90F during transportation and storage is needed. Containers should be firmly closed after each use. Under appropriate storage conditions the shelf life of this product is 6 months. | | | | | | | | | | |
| Handling | Full information on the safe handling is available in the Material Safety Data Sheet (MSDS). Further details are available upon request. | | | | | | | | | | |

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 sale of the manufacturing company, Nouryon, Akzo Nobel Functional Chemicals GmbH, Greiz, Germany.

Akzo Nobel Functional Chemicals GmbH
 Liebigstr.7, D-07973 Greiz, Germany
 Tel. +49-3661-78-0

thioplast@nouryon.com
<https://sulfurderivatives.nouryon.com/thioplast/>