

Thioplast EPS80

Liquid polysulfide polymer with epoxy end groups

Nouryon's fast-curing epoxy-terminated polysulfide polymer. Thanks to the aromatic end-groups, this grade is curing quickly, even at room temperature. As the other Thioplast® EPS grades, this grade combines the excellent properties of polysulfides with the most desirable features of epoxy-resin systems to yield: excellent primerless adhesion to many surfaces (e.g. steel, aluminum or concrete), high impact resistance, even at low temperatures, high thermo cycling stability, chemical resistance to oil, fuels, dilute acids, alkalis, solvents and sea water, very high flexibility, good weathering properties and corrosion protection. Thioplast® EPS can either be used alone or in combination with conventional epoxy resins to produce high-performance heavy-duty adhesives and coatings. Manufacturers from the automotive, marine or chemical industries rely on Thioplast® EPS grades.

CAS number
117527-71-6

Characteristics

Appearance	Clear amber liquid
Color	Light yellowish
Epoxy-oxygen content	~ 4.6-5.6 wt%
Equivalent weight	~ 280-350 g/equ
Viscosity, 25°C	~ 7.5 Pa.s

Notes:

Typical properties, not to be construed as product specifications.

Applications

Thioplast® EPS80 could be used in application of flexible, crack bridging and corrosionresistant 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. Further advantages of Thioplast® EPS80 are; 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.

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.

Packaging and transport

Thioplast® EPS80 is available in 200 L drums or 1000L IBC.

Safety and handling

Full information on the safe handling is available in the Material Safety Data Sheet (MSDS). Further details are available upon request.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The Nouryon logo consists of a stylized blue 'N' followed by the word 'ouryon' in a lowercase, sans-serif font.