

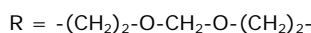
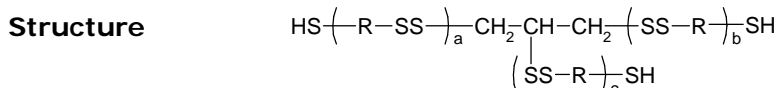


## Product Data Sheet

Status:  
January 2009

# Thioplast™ G 4

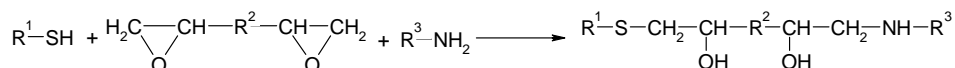
**Description** Liquid polysulfide polymer with thiol end groups



$$a + b + c = n < 7$$

Properties		
Appearance		brown liquid
SH content	%	5.0 – 7.0
Viscosity (25 °C)	Pa*s	max 1.3
Av. Molecular weight	g/mol	< 1100
Cross-linking agent	mol-% TCP	2.0
Specific weight	kg/m <sup>3</sup>	1,259
Water content	%	max 0.3
Sulfur content	%	37 - 38
Volatile ingredients	%	max 1.0
Glass point	°C	app. – 60 °C
Flash point	°C	> 230 °C
Specific heat	kJ/kg*K	1.26
Heat of combustion	kJ/kg	24,075

**Application** Epoxy modification in coating systems  
The reactive terminal groups of epoxy resins react with the SH-end groups of Thioplast G 4 so that copolymers are formed. A curative, e.g. an amine, is required which, together with Thioplast G 4, forms one component of the system. The general curing reaction is indicated in the formula below:



The cured products are characterised by increased toughness, superior impact strength and a significantly lower level of brittleness.

The ratio Thioplast G 4 : epoxy resin can be varied. The most effective ratios are between 1 : 1.2 and 1 : 2.5.

**Packaging** lid drums 250 kg net; inner liner, bungs upon request

**Storage** Store the container in cool and dry area, keep it closed when not in use.  
Shelf life under appropriate storage conditions min 3 years

**Handling** Full information on the safe handling of Thioplast G 4 is available in the Material Safety Data Sheet (MSDS).

### Legal disclaimer:

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