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Technirez® A-1 and A-1M

Description:

Technirez A-1 is a single component liquid anhydride cured epoxy resin designed for heat cured applications. Technirez A-1 can be used by itself with no additional accelerators. The viscosity of Technirez A-1 is stable for about 6 months at room temperature, several weeks at 50°C. The product can be completely cured within minutes depending on cure temperature. Technirez A-1M is a faster cure version of A-1.

A-1 and A-1M can be pre-saturated into fiber matrices for use in composite prepregs or saturated felts for underground pipe repair and stored for several months. The cured material is water and solvent resistant.

The accelerator package for Technirez® A-1 is also available as a master-batch that allows formulators to use their own epoxies and anhydrides.

Advantages:

- Low viscosity
- Excellent reactivity at elevated temperatures
- Excellent storage stability
- High mechanical properties and glass transition temperature

Typical Applications:

- filament winding,
- underground pipe and tank repair
- resin transfer molding

Typical Properties:

	A-1	A-1M
Appearance:	Amber liquid	
Viscosity (cPs)at 25C :	1100	1240
% Solids	100%	100%

Gel Time (minutes):

@ 70°C	270	55
@ 80 °C	60	35
@ 100°C	16	10.5
@120°C	6	3.5
@150°C	1.5	1.0

Tg¹ (°C) after

60 minutes cure @100°C	115	125
25 minutes cure @120°C	125	130
15 minutes cure @150°C	125	130

Shelf Stability (months) @25°C

>6 >3

1. By DSC, Scan rate=10°C/min.

Handling Precautions:

Refer to the product Safety Data Sheet. Storage may result in soft settling of the accelerator. Light stirring will result in homogeneous mixture of Technirez A-1.