



BUILDING TRUST



EPO 9051

Cured In-Place Pipe Rehabilitation

Cold & Warm Epoxy Resin System

In house, connexion and vertical gravity pipes rehabilitation

DESCRIPTION

Laminating of polyester felts / glass fabrics for the reinforcement and replacement of vertical and/or underground gravity pipes with a polymerization without or with heating

PROPERTIES

- Room temperature and warm polymerization
- Vertical position application
- In accordance with ISO standard 11296-4: 2009 §5.3

PHYSICAL PROPERTIES				
Composition		RESIN	HARDENER	MIXED
Mix ratio by weight		100	39	
Mix ratio by volume at 25°C		100	50	
Aspect		Liquid	Liquid	Liquid
Colour		Yellow	Dark amber	Yellow
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	2,500	1,900	2,500
Specific gravity at 25°C (g/cm ³)	ISO 1675: 1985	1.30	1.01	1.20
Pot life at 25°C on 100 cm ³ (min)	Gel Timer TECAM			25 - 35

PROCESSING CONDITIONS

It is recommended to re-homogenize the resin part before using it. Both parts (RESIN and HARDENER) must be mixed at room temperature according to the ratio indicated on the technical data sheet for 2 min. using a low-speed mechanical stirring tool or device to produce a homogenous mixture. Never overdose the hardener. Take care not to incorporate air in the mix during this operation. The recommended resin temperature should range between 18°C and 25°C. All time intervals (reactivity) will be reduced by high temperature and increase by low temperature (see page2).

MECHANICAL & THERMAL PROPERTIES of NEAT RESIN at 23°C (1)				
Characteristic	Standard	Unit	ISO 11296-4 requirement	Value
Tensile modulus	ISO 527-2: 2012	MPa	-	5,600
Tensile strength	ISO 527-2: 2012	MPa	-	80
Elongation at break	ISO 527-2: 2012	%	≥ 2.5	3.0
Flexural modulus	ISO 178: 2010	MPa	-	3,900
Flexural strength	ISO 178: 2010	MPa	≥ 80	130
Deflection temperature	ISO 75-2: 2013	°C	≥ 70	87

(1) Average values obtained on standardized specimens / Hardening 16 h at 80°C



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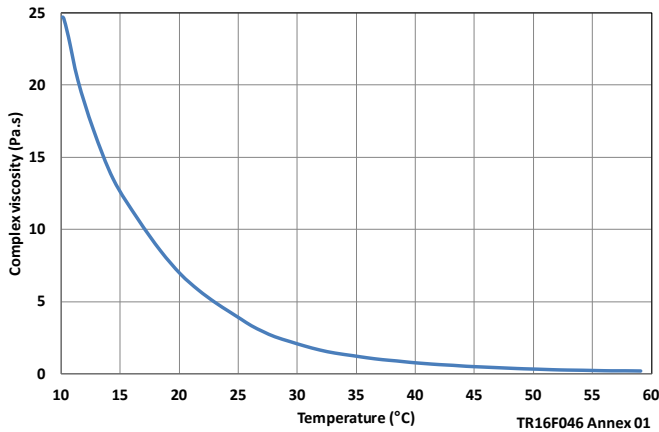
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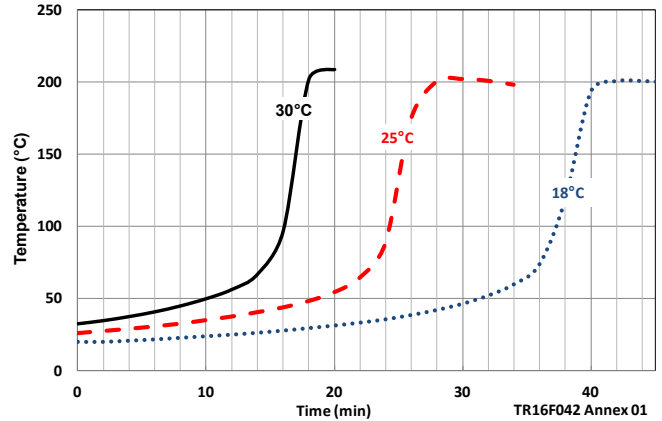
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Mix viscosity vs Temperature



Peak exothermic vs temperature on 100 ml (ASTM D2471-99)



HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products:

- Ensure good ventilation
- Wear gloves, safety glasses and waterproof clothes

For further information, please consult the product safety data sheet.

STORAGE CONDITIONS

Shelf life of the Resin part is 12 months and 24 months for the Hardener part in a dry place and in their original unopened containers at a temperature between 4 and 30°C. Expiration is indicated date on original container. Partly emptied containers should be closed immediately after use.

PACKAGING

- Resin part: 9.3 kg
- Hardener part: 3.6 kg

GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.

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