Technical Data Sheet

BX Comp. B 180

PRODUCT DESCRIPTION

- BX 180 is a two component good reactive system used for impregnation of the polyester felt and glass fibre liners for the CIPP pipe repair method
- Medium-long pot life, good compatibility with humid surfaces, good thermal resistance, good mechanical properties in function of felt used
- BX 180 is a solvent free, pigmented, two component good reactive epoxy system with high mechanical properties and high TG when cured at 50 °C. It also cures without heat support
- Very good resistant system against acids, bases as well as oil derivate
- Very good bonding ability to the pipes made of concrete and metal
- Impregnation of fibers and felts by vacuum
- The curing at room temperature is possible
- Hot cure the system (3 hours at 50 °C with hot water or 1,5 hours at 60 °C)
- To speed-up the crosslinking, to assure dimensional stability up to an operating temperature of approx. 100 °C

INSTRUCTION

Add the appropriate quantity of hardener to the resin, mix carefully. Mix for about 3 - 5 mins, as function of the amount to be mixed. Avoid air trapping. Keep the temperature of the mixture under control and avoid allowing it to pass 25 °C (at higher temperatures pot-life is reduced). The faster the mixing process the more time there is available for impregnation and calendaring.

STORAGE

Epoxy resins and their hardeners can be stored for two years in the original sealed containers stored in a cool, dry place. The hardeners are moisture sensitive therefore it is good practice to close the vessel immediately after each use.

HANDLING PRECAUTIONS

Refer to the safety data sheet and comply with regulations relating to industrial health and waste disposal.

The information given in this publication is based on the present state of our technical knowledge but buyers and users should make their own assessments of our products under their own application conditions.

180
COMP. B

Resin	Hardener	Mixing ratio by weight
BX A	BX 180	100 : 20 (5 : 1)
Can: 14 kg	Can: 2,8 kg	
Colour: blue	Colour: -	

GENERAL DATA		
Components	Viscosity at 22 °C (mPas)	Destiny at 22 °C (g/cm³)
Comp A	800 - 1100	1,13
Comp B	10 - 20	1,0
Comp A + B	800 - 1000	1,10

MECHANICAL CHARACTERISTICS (cured at 50 °C for 3 hours)			
Flexural elastic modulus	EN ISO 11296-4 EN ISO 178	MPA N/mm²	min. 2700
Flexural strength	EN ISO 11296-4 EN ISO 178	MPA N/mm²	min. 79
Elognation at break	EN ISO 11296-4 EN ISO 178	%	2,1
Tensile strength	EN ISO 11296-4 EN ISO 178	MPA N/mm²	34
TG	EN ISO 11296-4	°C	104

PROCESSING TIME			
Material temp.	10 °C	15 °C	20 °C
Potlife in 125 g cup	--	270 min	210 min
Potlife in impregnated liner	--	5 Std / h	4 Std / h

CURING TIME			
AMBIENT CURING			
Material temp.	10 °C	15 °C	20 °C
Curing time in 125 g cup	--	36 Std / h	24 Std / h
WARM CURING			
Material temp.	40 °C	50 °C	60 °C
Curing time	6 Std / h	3 Std / h	1,5 Std / h
The resin does react until min environmental temperature of 10 °C without heat support. **IMPORTANT** Total cure time consists of: warming up process / curing process / cooling down process.			