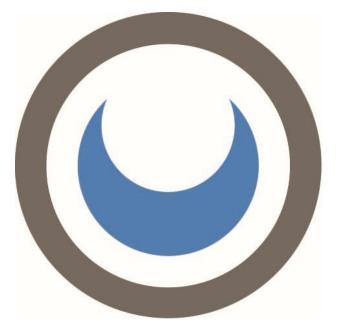


Repiper Resin – Systems TDS – Technical Data Sheet

Product name: Repiper Epoxy Resin EX1-2		
General Information	Epoxy Resin System for CIPP	



Safety and handling Precautions

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

Publicized data

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 condition.

1



PRODUCT INFORMATION

Resin	Hardener	Mixing Ration By weight
Repiper Epoxy Base	Repiper Hardener EX1-2	100:25

Repiper Resin system EX1-2 is a two-component resin system made to impregnate for CIPP liners.

Product description:

The EX1-2 is a solvent free, pigmented two component good reactive epoxy system with high mechanical property and high TG when cured at 122 °F (50 °C). It also cures without heat assist.

- Highly resistant to acids, bases and oil derivative as gasoline, and different fuels.
- High bonding abilities to materials as metal and concrete.

A 11 41	CIPP – Pipe relining with different felt liner
Applications	products. Pull in place and inversion.
	Impregnation of felt products preferably with
	vacuum. Curing at room temperature is
	possible. Heat assisting with hot water or
Processing	steam, the curing process will take around
	100 minutes at 122 °F (50 °C), 70 minutes at
	140 °F (60 °C).
Description	TWO component epoxy resin system with
	medium long pot life, good combability with
	humid surfaces, good mechanical properties
	in function of what kind of felt used.

Mechanical Characteristics (Cured at 122 °F (50 °C) for 100 minutes)			
Flexural elastic	EN ISO 11296-4 EN MPA N/mm² min. 2900		
modulus	ISO 178		
Flexural strength	EN ISO 11296-4 EN	MPA N/mm ²	min. 59
	ISO 178		
Elongation at break	EN ISO 11296-4 EN	%	2,1
	ISO 178		
Tensile strength	EN ISO 11296-4 EN	MPA N/mm ²	Min. 50
	ISO 178		
TG	EN ISO 11296-4	°C	98



	General Data's		
Resin	Drum: 225kg Can: 14kg		
Hardener	Drum 200 Kg	Can: 3,5kg	
Color Resin	Blue		
Color Hardener	Clear/Amber		
Mixing ratio (by weight)	100:25		
Components	Viscosoty at 72°F (22 °C) in	Density at 72°F (22 °C) in	
	(mPas)	(g/cm^3)	
Comp A	800-1100	1,13	
Comp B	1100-1200	1,0	
Comp A + B	1000- 1200	1,10	

Processing Time			
Material temperature	50 °F (10°C)	59°F (15°C)	68 °F (20°C)
Potlife in 125g cup	40-45 min	35-40 min	30-35 min
Potlife in impregnated Liner	Ca 75min	Ca 60 min	Ca 50 min

Curing time			
Ambient curing			
Material temperature	50 °F (10°C)	59°F (15°C)	68 °F (20°C)
Curing time in 125 g cup	20 Std / h	12 Std / h	8 Std / h
Warm curing			
Material temperature	104 °F (40 °C)	122 °F (50 °C)	140 °F (60 °C)
Curing time	200 min	100 min	70 min
Repiper Epoxy Resin system EX1-2 dose not react until min environmental temperature reach			

 41° F (5 °C) without heat support.

Total cure time consist of:

Warming up process - curing process - Cooling down Process



Instruction

Add the appropriate quantity of hardener to the appropriate quantity of resin, mix carefully. Mix for about 3-5 minutes, 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 77°F (25 °C) (at higher temperatures pot-life is reduced). The faster the mixing process the more time there is available for impregnation and installing the liner product

Storage

Repiper 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 closing the container immediately after each use is necessary.

Safety and handling Precautions

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

Publicized data

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.