

CA 90 / SD 9002

High mechanical resistance epoxy compound

Description

- Two component system filled with glass fibre
- Excellent shear strength
- Hardens at ambient temperature
- Low exothermic peak
- Post-cure at 60°C required to optimise mechanical properties

Application

Can be used by casting or injection
Chocking of metallic parts.

Physical Properties

	Resin CA 90	Hardener SD 9002
Aspect	paste	liquid
Viscosity @ 25 °C (cps)	60 000 ± 10 000	2000 ± 500
Rheometer CP50	(gradient speed @ 10 s-1)	(gradient speed 10 @ s-1)
Density @ 20 °C (g / cm ³)	1.58 ± 0.02	0.97 ± 0.01
Picnometer		
Colour	grey	yellow



Mix CA 90 / SD 9002

	CA 90 / SD 9002
Aspect	Grey Viscous liquid
Viscosity @ 25 °C (cps)	40 000 ± 10 000
CP50 (gradient speed 10 s-1)	
Temperature of exothermic peak on 500 g mix at 25°C	58 °C in 3 h
Density of cured mix (g / cm ³)	1.44 ± 0.02
Mixing ratio by Weight	100 / 20 g

Recommendations Before Use

The resin CA 90 can decant after storage.
Mix thoroughly before use and mix with hardener SD 9002.

Safety Data

Products	Symbols	Phrases of Risks
CA 90	 Xi: Irritant N : Dangerous for the environment	R 36/38 R 51/53 R 43:
SD 9002	 C: Corrosive	R 21/22 R 34: R 43:

Mechanical Properties

		CA 90 / SD 9002
Post cure cycle		8 h @ 60 °C
Flexion		
Module	N/mm ²	5200
Maximum Resistance	N/mm ²	75
Elongation at max load	%	1.6
Elongation at break	%	1.6
Glass transition		
Tg1	°C	74
Tg1 max.	°C	80

Tests carried out on samples of pure cast resin, without prior degassing, between steel plates.

Measures undertaken according to Afnor norms :

Flexion : NF T 51-001

Glass transition DSC : Tg1: 1st point @ 10°C / mn, Tg 1 max.: 2nd passage 180°C

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