



SR 1330 / SD 8302 Ultra slow epoxy system

Unfilled and solvent free epoxy system suitable for :

Thick section casting , inclusions, chocking of engines, ballast.
Fixing in concrete, injection.
Thick laminate, pre-impregnation of felt for waterproofing, mould making.

Description

Very low reactivity, can be accelerated with SA 300 or by increasing the temperature.
Cures at room temperature, post cure from 40 to 80°C. Low toxicity.
Mix is almost water clear, for an optical quality the resin **SR 1690** gives better results.
Excellent resistance to impact and thermal shocks.

Resin SR 1330		Hardener SD 8302
Aspect :	Viscous Liquid	Liquid
Colour	Clear to pale yellow Gardner < 2	Clear
Chemical nature	Bisphenol A / Epichlorhydrine	Polyamines
Viscosity (mPa.s) @ 25 °C	8500 ± 1000	9 ± 3
Density (Kg/l) @ 20 °C	1.176	0.948
Storage	Can crystallize @ low temperature or during a long storage.	Excellent in a closed drum, without contact to humidity and carbon dioxide

System SR 1330 / SD 8302

Viscosity of mix (m.Pas)	@ 25 °C	600
Colour		Clear to pale yellow
Time to reach the exothermic peak on 1kg mix	@ 25 °C	5 hours / 100 °C
Time to reach 50°C on 1kg mix	@ 25°C	4 hours
Dust free in 500 microns film	@ 25 °C	9 hours
Mixing ratio for SR 1330 / SD 8302		
By weight	100 g	35g
By volume	100 ml	44 ml

Advised post-cure cycle

Let cure at room temperature then:
24 hours @ 40 °C or 8 hours @ 60 °C or 3 hours @ 80 °C



Packaging (in Kg)

Unit of delivery	Resin SR 1330	Hardener SD 8302
780	2 x 240	200
270	200	7 x 10
40.5	30	3 x 3.5
13.5	10	3.5

Health & Safety

References	Symbols	Dangers	Phrases Risks
SR 1330		Xi Irritant N Dangerous for the environment	36/38 - 51/53 43
SD 7160		C Corrosive	21/22 - 34

EEC Classification according to doc. 1 of directive 67 / 548 / EEC

Mechanical properties of pure resin

Cure Schedule	SR 1330 / SD 8302				
	14 jours à 23 °C	48 h Ta + 24 h 40 °C	48 h Ta + 8 h 60 °C	48 h Ta + 4 h 80 °C	
Tensile					
Modulus of elasticity	N/mm ²	3300	2880	2870	2720
Maximum resistance	N/mm ²	61	63	64	63
Resistance at break	N/mm ²	61	48	56	52
Elongation at max. resistance	%	3.2	4.3	4.4	4.6
Elongation at break	%	3.2	4.8	5.7	5.7
Flexion					
Modulus of elasticity	N/mm ²	3350	3000	2970	2890
Maximum resistance	N/mm ²	99	99	101	103
Elongation at max. load	%	3.6	4.5	4.8	5.0
Elongation at break	%	4.2	15.3	14.2	13.5
Charpy impact strength					
Resilience	KJ/m ²	19	51	51	53
Glass Transition					
Tg1	°C	51	59	71	75
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 :

Tension : NF T51-034

Flexion : NF T51-001

Compression: NF T 51-101

Choc Charpy: NF T51-501

Glass transition: DSC Tg 1 = 1° point @ 10°C

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