

EN Product Information

Elan-tech®

EC 131LV/W 152 XLR (ex. W 131)

100:25 by weight

ELANTAS EUROPE Sales offices:

Strada Antolini n°1 loc. Lemignano
43044 Collecchio (PR)
Italy
Tel +39 0521 304777
Fax +39 0521 804410

Grossmannstr. 105
20539 Hamburg
Germany
Tel +49 40 78946 0
Fax +49 40 78946 349

info.elantas.europe@altana.com
www.elantas.com

Resin
EC 131LV

Hardener
W 152 XLR (ex. W 131)

Mixing ratio by weight
100:25

Application: Copling layers of large size composites.

Processing: Filled with hollow microspheres and/or thixotropic agents to obtain putties to be used as connecting layers of composites with PVC foam. Room temperature or hot curing.

Description: Un-filled epoxy system. The hardener W 131 has a long pot life.

SYSTEM SPECIFICATIONS

Resin

Viscosity at:	25°C	IO-10-50 (EN13702-2)	mPas	1.000	1.600
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Hardener

FTIR spectrum (correlation factor)		IO-10-75		0,990	1,000
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TYPICAL SYSTEM CHARACTERISTICS

Processing Data

Mixing ratio by weight		for 100 g resin	g	100:25
Mixing ratio by volume		for 100 ml resin	ml	100:30
Resin Colour				Violet
Hardener Colour				Pale yellow
Viscosity at: 25°C Hardener		IO-10-50 (EN13702-2)	mPas	10 30
Density at: 25°C Resin		IO-10-51 (ASTM D 1475)	g/ml	1,10 1,15
Density at: 25°C Hardener		IO-10-51 (ASTM D 1475)	g/ml	0,90 0,95
Pot life	25°C (40mm;100ml)	IO-10-53 (*)	min	150 170
Initial mixture viscosity at:	25°C	IO-10-50 (EN13702-2)	mPas	300 800
Gelation time	25°C (15ml;6mm)	IO-10-73 (*)	h	8 10
Post-curing	60°C	(**)	h	(15)

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TYPICAL CURED SYSTEM PROPERTIES

Properties determined on specimens cured: 24 h TA + 15 h 60°C

Colour			Violet	
Density 25°C	IO-10-54 (ASTM D 792)	g/ml	1,10	1,14
Hardness	IO-10-58 (ASTM D 2240)	Shore D/15	84	87
Glass transition (Tg)	IO-10-69 (ASTM D 3418)	°C	70	75
Water absorption (24h RT)	IO-10-70 (ASTM D 570)	%	0,30	0,40
Water absorption (2h 100°C)	IO-10-70 (ASTM D 570)	%	1,30	1,40
Max recommended operating temperature	(***)	°C	65	

IO-00-00 = Elantas Italia's test method. The correspondent international method is indicated whenever possible.

nd = not determined na = not applicable RT = TA = laboratory room temperature (23±2°C)

Conversion units: 1 mPas = 1 cPs 1MN/m² = 10 kg/cm² = 1 MPa

(*) for larger quantities pot life is shorter and exothermic peak increases

(**) the brackets mean optionality

(***) The maximum operating temperature is given on the basis of laboratory information available being it function of the curing conditions used and of the type of coupled materials. For further possible information see post-curing paragraph.

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- Instructions:** Add the appropriate quantity of hardener to the resin, mix carefully. Avoid air trapping. For the surface preparation (mould or model) refer to the release agents data sheet.
- Curing**
Post-curing: Post curing is always advisable for RT curing systems in order to stabilize the component and to reach the best properties. It is necessary when the component works at a high temperature. Post cure the tool as stated in the table, increasing gradually 10°C/hour. The rate of heating and the indicated post-curing time are referred to standard specimen size. Users should evaluate the best conditions of curing or post-curing depending on the component size and shape. For big size components decrease the thermal gradient and increase the post-curing time. In the case of thin layer applications and composites post cure on the jig.
- 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.

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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.