



BUILDING TRUST



ADEKIT H 9952 BK

H 9952 BK RESIN

H 9952 HARDENER

STRUCTURAL EPOXY ADHESIVE

HIGH AGING RESISTANCE

DESCRIPTION

- High performances two components epoxy adhesive, especially formulated to bond high dimensions surfaces and providing high level of mechanical and aging properties.
- Nano enhanced systems
- Self extinguish
- Contains 200µm bead to calibrate adhesive thickness
- High sheer and peel
- Long open time for big parts assembly

PROPERTIES

- High performances assembly
- Bonding of panels: honeycomb, aluminium sheet, stainless-steel sheet, composite materials, wood, thermoplastics, foam...
- Bonding of Carbon & glass epoxy composite, Polyester composite, metal structure

PHYSICAL PROPERTIES				
Composition		RESIN	HARDENER	MIXED
Mix ratio by weight		100	47	-
Mix ratio by volume at 25°C		100	50	-
Aspect		Thick liquid	Thick liquid	Thick liquid
Colour		Black	Beige	Black
Viscosity @ 25°C 10tr	(Pa.s)	BROOKFIELD LT-001 145	185	80
Viscosity @ 25°C 2.5tr	(Pa.s)	BROOKFIELD LT-001 350	600	230
Density at 25°C		LT-020 1,40	1,30	-
Mixed adhesive density at 23°C		ISO 2781 -	-	1,38
Pot life at 25°C on 100 g	(min)	LT-002 -	-	120

MECHANICAL AND THERMAL PROPERTIES (1)			
Hardness	ISO 868	Shore D	85
Tensile strength	ISO 527	MPa	42
Elongation at break	ISO 527	%	3
Working temperature *	AXSON method	°C	-40 ; + 150

(1) Curing conditions : 16h at 70°C

* Working temperature is defined as the temperature at which product keeps 80% of its initial Lap Shear Strength after 1000 hours ageing at this temperature, value on Aluminium, measured at 23°C.

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FIRE & SMOKE PROPERTIES

Railway applications - Fire protection on railway vehicles – Part 2 : requirements for fire behavior of materials and components	EN 45545-2	R1 HL3 R2 HL3 R3 HL3 R6 HL3 R7 HL3 R17 HL3
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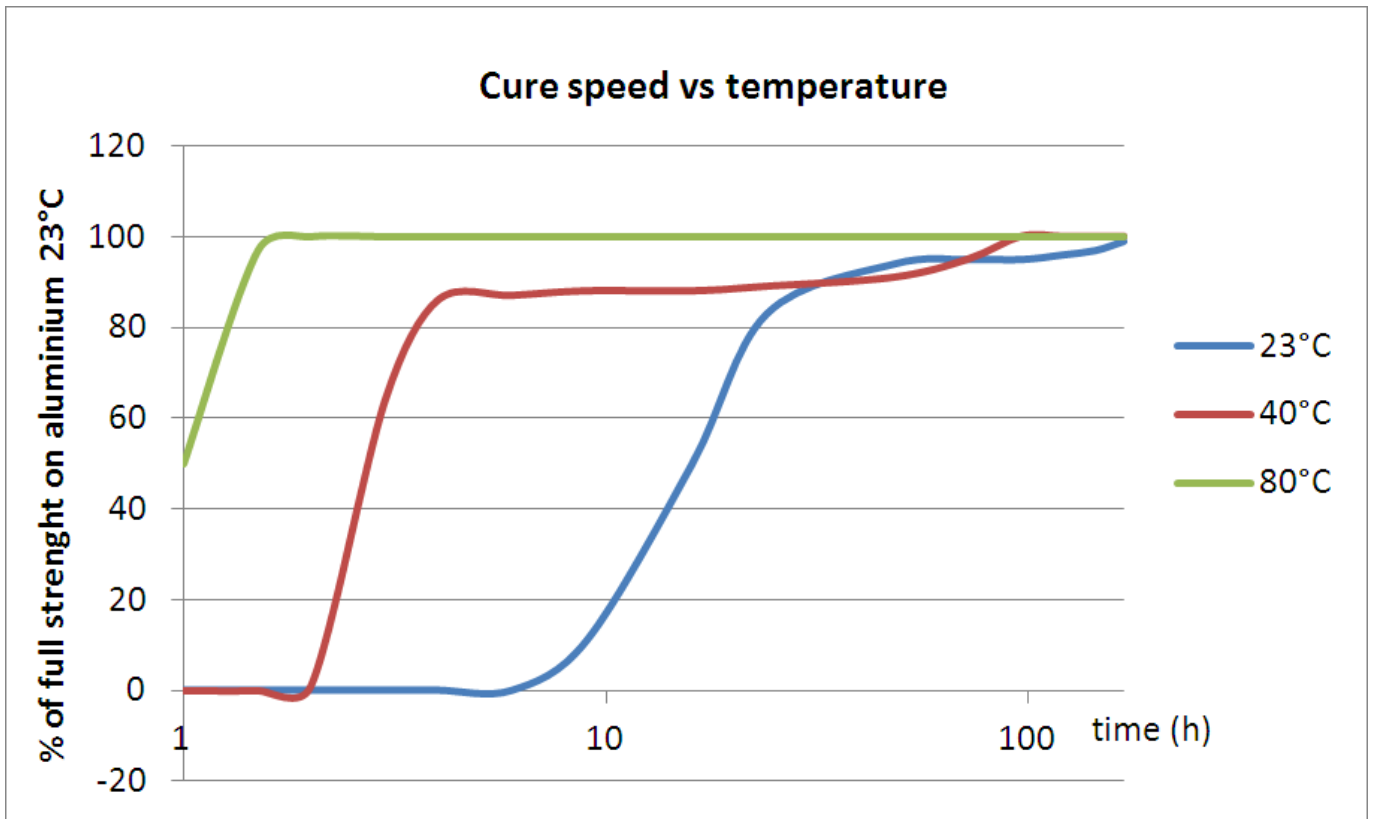
EQUIPMENT

Please consult our technical department for applications needing a machine.

SUBSTRATE PREPARATION

The item to be bonded must be free of all dirt, oil or other foreign matter. A clean, dry surface is a must. Please consult our technical support and refer to the technical data sheet about surface preparations to choose adapted degreaser or cleaner.

CURING PERFORMANCE





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MECANICAL PROPERTIES ON ASSEMBLIES (1)

Handling time (2)		LT-006-B	h	8
Lap Shear Strength		LT-006-B	MPA	
Aluminium 2017A sandblasted	at 23°C			22 SCF
	after moist cataplasm at 70°C and 100% RH:			
	1 week			22 SCF
	2 weeks			20 SCF
	3 weeks			17 SCF
	4 weeks			17 SCF
Stainless steel 304 sandblasted	at 23°C			25 SCF
	after moist cataplasm at 70°C and 100% RH:			
	1 week			24 SCF
	Versus temperature (See graph below)			
Electrogalvanised Steel sandblasted	at 23°C	22 AF		
	after moist Cataplasm at 70°C and 100% RH:			
	1 week	16 SCF		
Carbon Pre-preg Composite	at 23°C	17 SCF		
Polyamide	at 23°C	5 SF		
Floating roller peel strength		ISO 4578	KN/m	
Aluminium 2017A sandblasted	at 23°C			5
		after moist Cataplasm at 70°C et 100% RH:		
	1 week	4,5		

(2) Handling time is defined as the time needed to obtain Lap Shear Strength on Aluminium, at 23°C of 1 MPa.

SCF: Special Cohesive Failure

AF: Adhesive Failure

SF: Substrate Failure, according to ISO 10365.



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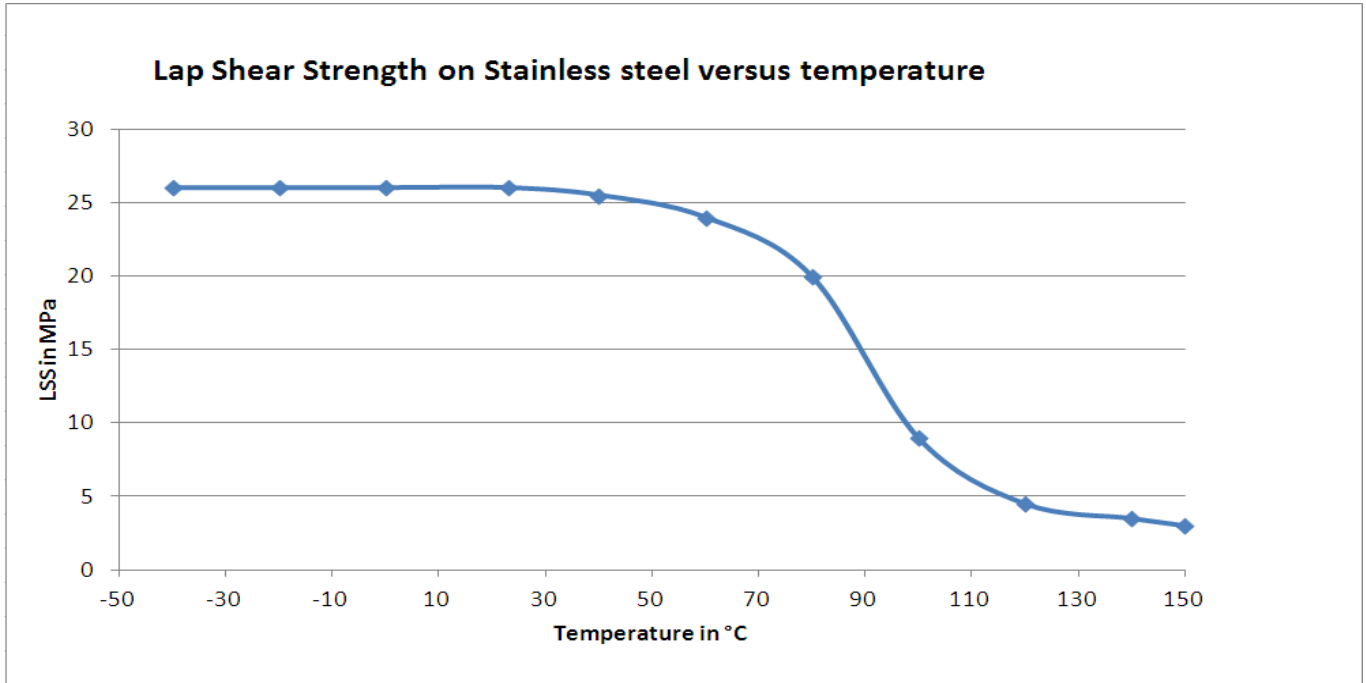
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HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products:

- Ensure good ventilation
- Wear gloves, safety glasses and waterproof clothes

For further information, please consult the product safety data sheet.

STORAGE CONDITIONS

Shelf life of H9952 is 24 months in a dry place and in their original unopened containers at a temperature between 15 and 25°C

PACKAGING

H 9952 BK RESIN	H 9952 HARDENER	KIT	CARTRIDGES
39 kg	37 kg	2 x 39kg + 37kg	12 x 420cc 12 x 50cc

GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.