

PROPERTIES

ADEKIT H 9951 T is a two-component filled epoxy adhesive of which properties make it the ideal product for bonding high dimension surfaces having high levels of mechanical and ageing resistance.

APPLICATIONS

Bonding of panels: honeycomb, aluminium sheet, steel sheet, composite materials, wood, thermoplastics, foam, etc...

PHYSICAL PROPERTIES				
Composition	RESIN	HARDENER	MIX	Method
Mix ratio by weight	100	62		
Mix ratio by volume at 25°C	100	73		
Colour	White	Red	Translucent pink	
Viscosity at 25°C, Pa.s ^(AKP)	50 – 85*	6.5 – 9.5**	20 – 28**	*LT-063 / 1.8 s ⁻¹ **LT-001
Density at 25°C	1,16 ^(AKP)	0,98	-	LT-020
Density of cured product at 23°C	-	-	1,08	ISO 2781
Pot life at 23°C on 50g, min	-	-	50	LT-002

(AKP): Axson Key Properties. These values are enclosed in Certificate Of Analysis.

THERMAL AND MECHANICAL PROPERTIES			
Hardness	Shore D1 / D15	75/73	ISO 868 : 1985
Tensile strength	MPa	35	ISO 527 : 1993
Elongation at break	%	7	ISO 527 : 1993
Glass transition temperature	°C	70	TMA-METTLER
Thermal coefficient of expansion (CTE)[-30 ; +50]°C	10 ⁻⁶ K ⁻¹	70	TMA-METTLER

MECHANICAL PROPERTIES ON ASSEMBLIES

Time to obtain 1 MPa RTC at 25°C	h	6	ISO 4587 : 1995
Time to obtain 50% final RTC at 25°C	h	12	ISO 4587 : 1995
Lap shear strength on aluminium ⁽¹⁾	MPa	26 CF ⁽²⁾	ISO 4587 : 1995
Climbing drum peel resistance ^{(1) (4)}	N. cm/cm	100 CF ⁽²⁾	BS 5350
Lap shear strength after moist cataplasms 7 days at 70°C	MPa	23 CF ⁽²⁾	ISO 4587 : 1995

Lap shear strength on sand blasted aluminium 2017A (150 MESH)

(1) Hardening conditions: 2 hours at 70°C + 48 hours at room temperature

(2) Failure profiles / CF: Cohesive Failure – ISO 10365 (1992)

(3) peel resistance on honeycomb bonding – cell size 6mm – w orientation.

EQUIPMENT

Please consult our technical department for applications needing a machine.

PRECAUTIONS

It is recommended to use the product at a temperature between +18°C and +35°C.

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.

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.

STORAGE CONDITIONS

Shelf life of the H9951T is 18 months for the Hardener part, at least 12 months for the Resin part, stored in its original unopened packaging at a temperature between +15°C and +25°C.



BUILDING TRUST



ADEKIT H 9951 T

FILLED STRUCTURAL EPOXY ADHESIVE FOR BONDING PANELS

PACKAGING

Resin	Hardener
220 kg	190 kg

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.

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