

BUILDING TRUST

PRODUCT DATA SHEET

ADEKIT A155 / H9955

TWO COMPONENT EPOXY ADHESIVE

DESCRIPTION

Two component Epoxy adhesive for bonding large dimension parts requiring a high level of mechanical and ageing properties.

PROPERTIES

- Two component Epoxy adhesive
 Non sagging paste suitable for vertical
- applications and to fill irregular jointsLong open time to cover and bond wide surfaces
- Excellent mechanical and thermal performances
 Excellent strength to dynamic loads (vibrations and impacts)
- Product adapted to stringent ageing and aggressive environments

PHYSICAL PROPERTIES

Composition		RESIN	HARDENER	MIX	METHOD
Mix ratio by weight		100	47		
Mix ratio by volume at 25 °C		100	50		
Colour		White	White	White	
Density at 25 °C (KP)		1.16	1.07	-	LT-020
Density of cured product at 23 °C		-	-	1.12	LT-047
Viscosity at 25 °C ^(KP)	(Pa.S)	65 *	200 **	-	LT-063 *18 s ⁻¹ 60s **0.9 s ⁻¹ 60s
Pot life on 100g at 23 °C	(min)	-	-	170	RHEOTEC
Open time on 7 mm bead at 23 °C	(min)	-	-	60	LT-006-B

(KP) Key properties. These values are enclosed in Certificate of Analysis.

MECHANICAL PROPERTIES (1)

Hardness ^(KP) ⁽²⁾	(Shore D)	83	LT-022
Tensile strength	(MPa)	53	ISO 527-2
Elongation at break	(%)	8.5	ISO 527-2
YOUNG Modulus	(MPa)	1900	ISO 527-2
Recommended use tempe	rature (°C)	15 - 30	-
Working temperature ⁽³⁾	(°C)	-40 - 130	LT-006-B
(1) Current 1C havens at 70 %C	2) Curred 2 h at 00 %C		

(1) Cured 16 hours at 70 °C (2) Cured 2 h at 80 °C

(3) 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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HANDLING TIME (1)

At 23 °C	10 h	
At 40 °C	3 h 15	LT-006-B
At 60 °C	1 h	

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

MECHANICAL PROPERTIES ON ASSEMBLIES (1)

	LAP SHEAR STRENGTH AT 23 °	C (MPa)	METHOD
Aluminium 2017A	Initial	22 AF	
(sandblasted)	After wet cataplasm 7 days at 70 °C / 100% RH	18 AF	
	After 15 cycles D3 ⁽²⁾	18 AF	
Stainless Steel 304	Initial	22 AF	
(sandblasted)	After wet cataplasm 7 days at 70 °C / 100% RH	17 AF	
Electro-galvanized Steel (sandblasted)		20 AF	
Electro-galvanized Steel (acetone wipe)		9 AF	
ABS (sanded + Isopropanol + plastic primer ⁽³⁾)		3.5 SF	
PC (sanded + Isopropanol + plastic primer ⁽³⁾)		4.5 SF	LT-006-B
PVC (sanded + Isopropanol + plastic primer ⁽³⁾)		3 SF	
PMMA (sanded + Isopropanol + plastic primer ⁽³⁾)		1.5 AF	
PA6E (sanded + Isopropanol + plastic primer ⁽³⁾)		3 SF	
GFR Polyester (Isopropanol wipe)		6.5 DF	
GFR Epoxy		35 SCF/AF	

(2) Cycle D3 : 16 h at 40 °C/95% RH + 3 h at -20 °C + 5 h at 70 °C/50% \pm 5% RH, according to ISO 9142 standard.

(3) Plastic sanded, Isopropanol wipe and coated with Sika Advanced Resins plastic primer 5069.

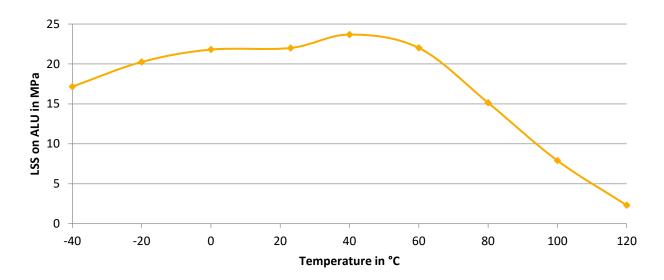
AF: Adhesive Failure, SF: Substrate Failure, DF: Delamination Failure, SCF: Special Cohesive Failure, according to EN ISO 10365 Standard.

FLOATING ROLLER PEEL STRENGTH AT 23°C

Aluminium 2017A	(kN/m)	2	ISO 4578
(sandblasted)	(KN/11)	5	150 4578







PROCESSING

- Equipment: ADEKIT A155 is packaged in 50 ml and 400 ml cartridges and require a manual or pneumatic gun.
- 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.

Consult our Technical Support about surface preparations.

HANDLING PRECAUTIONS

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

- Ensure good ventilation.
- Wear gloves, glasses and protective clothes.

For further information, please consult the Safety Data Sheet.

STORAGE CONDITIONS

Shelf life of **ADEKIT A155** is **12 months** in a dry place and in original unopened containers at a temperature between 15 and 25 °C.

Shelf life of **ADEKIT H9955 Resin** is **12 months** in a dry place and in original unopened containers at a temperature between 15 and 25 °C.

Shelf life of **ADEKIT H9955 Hardener** is **12 months** in a dry place and in original unopened containers at a temperature between 15 and 25 °C.



A155	/	50	ml	

- A155 / 400 ml
- H9955 Resin
- H9955 Hardener

Box of 12 cartridges Box of 12 cartridges 40 kg 40 kg

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Advanced Resins. Copies of the following publications are available on request: Safety Data Sheets.

VALUE BASES

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTICE

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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