

PRODUCT DATA SHEET

ADEKIT A 280 BK / H 6280 POLYOL / H 6280 ISOCYANATE

TWO COMPONENT POLYURETHANE ADHESIVE

DESCRIPTION

Bonding of parts in large series, bonding and repairing of body elements, bonding and repairing of composite parts

PROPERTIES

- 2 component room temperature cure polyurethane adhesive
- Non sagging paste product suitable for vertical applications and to fill irregular joints
- Excellent vibrations, impacts and noise damping
- Excellent behaviour at low temperatures
- Product adapted to assemblies involving dissimilar materials
- Excellent mechanical performances and ageing
- Excellent strength to dynamic loads (vibrations and impacts)
- Product adapted to stringent ageing and aggressive environments

PHYSICAL PROPERTIES

Composition	POLYOL	ISOCYANATE	MIX	METHOD
Mix ratio by weight	130	100		
Mix ratio by volume at 25 °C	100	100		
Colour	Black (BK) Beige (BG)	Beige	Black (BK) Beige (BG)	
Density at 25 °C ^(KP)	1,47	1,17	-	LT-020
Density of cured product at 23 °C	-	-	1,34	ISO 2781
Viscosity at 25 °C ^(KP) (Pa.s)	40-90 300-600		25-55 100-200	LT-063 / 15 s ⁻¹ LT-063 / 1.5 s ⁻¹
		11-19		LT-001
Pot life on 50g at 23 °C ^(KP) (min)	-	-	6	LT-002-B
Open time on 7mm bead at 23 °C (min)	-	-	10	LT-006-B

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

MECHANICAL PROPERTIES⁽¹⁾

Hardness (Shore A / D)	48	ISO 868
Tensile strength (MPa)	13	ISO 527
Elongation at break (%)	95	ISO 527
YOUNG Modulus (MPa)	40	ISO 527
Recommended use temperature (°C)	15 to 30	

Working temperature ⁽²⁾ (°C)	-40 to 130	LT-006-B
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(1) Cured 16 hours at 70°C

(2) 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.

HANDLING TIME ⁽¹⁾

At 23 °C	(min)	45	
At 40 °C	(min)	20	LT-006-B
At 60 °C	(min)	10	

(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
	Initial		
Aluminium 2017A (sandblasted)	Initial	16 CF	LT-006-B
	After wet cataplast 7 days at 70°C / 100% RH on Aluminium coated with Sika Metal primer	11 CF	
	After wet cataplast 7 days at 70°C / 100% RH	6 AF	
	After 15 cycles D3 ⁽²⁾	13 CF	
	After 3 weeks immersion in:		
	Motor oil at 70 °C	16 CF	
	Hydrochloric acid (0.1 N)	13 CF	
	Soda (0.1 N)	9 CF	
	Seawater	15 CF	
	Gasoil	16 CF	
Gas	5 CF		
Stainless Steel 304 (sandblasted)	Initial	16 CF	LT-006-B
	After wet cataplast 7 days at 70°C / 100% RH	11 AF/CF	
Electro-galvanized Steel (sandblasted)		11 CF	
Electro-galvanized Steel (acetone wiped)		14 CF/AF	
ABS (Isopropanol + plastic primer ⁽³⁾)		6 SF	
PC (MPa)		7 SF	
PA6E (sandblasted)		4 SCF	
PVC (sandblasted)		7 SF	
PMMA		5 SF	
Composite SMC (sanded)		7 DF	

(1) Cured 16 hours at 70°C

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

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

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

FLOATING ROLLER PEEL STRENGTH AT 23°C

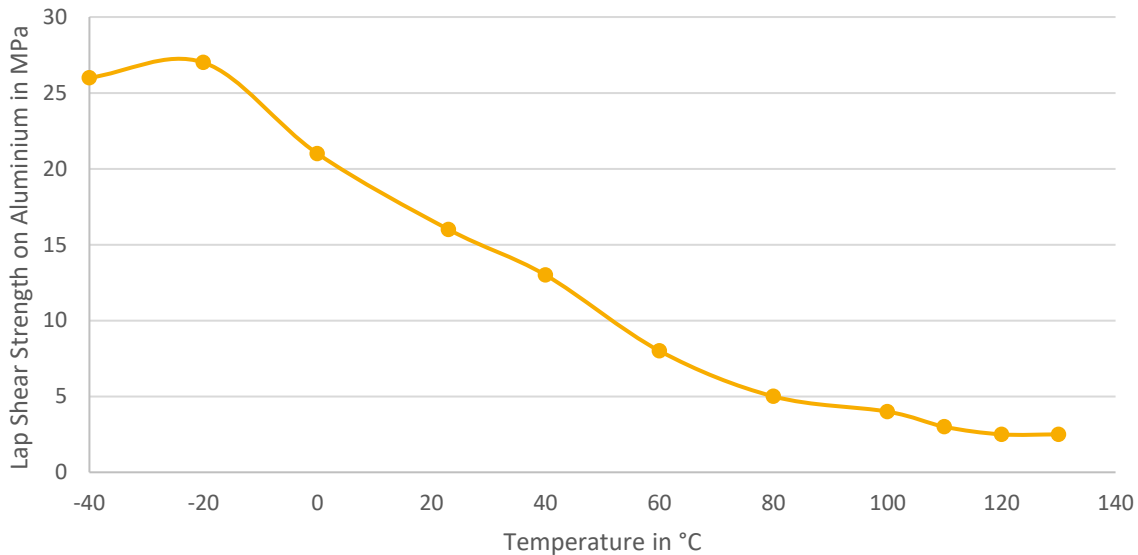
Aluminium 2017A
(sandblasted)

(kN/m)

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ISO 4578

Lap Shear Strength on Aluminium versus Temperature



PROCESSING

- **Equipment:** ADEKIT A 280 BK packaged in 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 A 280 BK** is **9 months** in a dry place and in original unopened containers at a temperature between 15 and 25° C.

Shelf life of **ADEKIT H 6280 ISOCYANATE** is **12 months** in a dry place and in original unopened containers at a temperature between 15 and 25° C.

Shelf life of **ADEKIT H 6280 POLYOL** is **12 months** in a dry place and in original unopened containers at a temperature between 15 and 25° C.

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6280 ISOCYANATE

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Sika Advanced Resins

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BUILDING TRUST



PACKAGING

■ A 280 BK / 400 ml	Box of 12 cartridges
■ H 6280 BK POLYOL	40 kg, 290 kg.
■ H 6280 BG POLYOL	40 kg.
■ H 6280 ISOCYANATE	5 kg, 32 kg, 225 kg, 230 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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