



CRC Industries NZ, Auckland NZ

I. Product Description

ADOS HS-E High Strength Elastomeric Adhesive is a one component structural adhesive with MS Technology. It has excellent adhesion and bonds very strongly to building materials, metals and plastics making it ideal for applications in the construction, building, engineering, automotive and marine industries. It is extremely versatile and can replace most water and solvent based construction adhesives, polyurethane adhesives and sealants.

ADOS HS-E is free from solvent, isocyanates, acids and silicones. It has no odour, will not shrink and can be painted over. It is resistant to adverse weather, water and UV rays providing a durable, colour stable product. It retains excellent bond strength, elasticity and tear resistance over the years.

II. Features & Benefits

- **High strength structural adhesive**
- **Elastomeric (flexible)**
- **Bridges gaps**
- **Suitable for most substrates** - Excellent primerless adhesion and very strong bond on building materials, metals and plastics.
- **MS technology**
- **Free of solvent, isocyanates, acids and silicones.**
- **Easy to apply, easy to tool and finish**
- **Paintable with most paints based on water, epoxy, polyurethane.**
- **Interior and exterior use**
- **Good extrudability even at low temperatures.**
- **Excellent mechanical properties, high hardness.**
- **Adhesion on damp surfaces.**
- **Completely neutral, no odour.**
- **Will not shrink.**
- **Excellent weathering and water resistance**
- **Excellent resistance to ageing and sunlight** – durable and colour stable.
- **High initial tack reducing the need for initial support.**
- **Fast curing, quick build-up of end strength, high sheer strength after full cure (no primer)**
- **Skins over in a short time** – Resisting dust and dirt pick up
- **Withstands mould growth**
- **High viscosity**
- **Sag resistant**

III. Application and Directions

Preparation of joint:

- The surfaces to be bonded must be clean and free from dust and grease. All separated and badly attached pieces must be removed.
- For a clean finish, mask edges of joints with masking tape.
- For optimal elastic characteristic of the sealant, all moving joints should be designed to an optimum width to depth ratio 2:1.
- For the optimal elastic characteristics of the sealant, a correct width/depth ratio is important 2:1 or a maximum of 1:1. The sealant must not grip the bottom of the joint, but only its sides. This can be achieved by using underlying materials, onto which the sealant has no adhesion (foamed polyethylene, polyurethane).
- The minimum joint width is 6 mm, the maximum 20 mm.

Application:

- Cut the cartridge at the top and screw on the nozzle which has to be cut according to the width of the joint.
- Apply sealant as evenly as possible.
- During work interruption release the handle on the gun and pull the piston back.
- When finished, level the sealant with an appropriate instrument or a well soaped finger.



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- Remove masking tape before the sealant starts to harden.

Clean Up:

- Clean up uncured adhesive with mineral turpentine.

Storage:

12 months in originally sealed package, in a dry and cool storage place at temperatures between + 5 °C and + 25 °C.

The following table shows how many linear metres of joints can be sealed with one 290 ml cartridge relative to the depth and width of the joint:

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8.3	6.2	5.0	4.2		
8		4.7	3.7	3.1	2.5	
10			3.0	2.5	2.0	1.5
12				2.1	1.7	1.2
15					1.3	1.0
20						0.75

IV. Typical Properties and Characteristics

Physical Properties:

Base	Hybrid Polymer
Curing mechanism	Moisture curing – Non-acid
Colour	White / Grey / Black
Specific gravity	1480 ± 10 kg/m ³
Skin formation time (23°C / 50% rel. humidity)	15 min ± 5 min
Cure time (23°C / 50% rel. humidity)	2-3 mm/day
Application temperature	+5°C to +30°C
Temperature resistance	-40°C to +90°C

Performance Characteristics:

Hardness Shore A (ISO 886)	55 - 60
Change in volume (ISO 10563)	< 1%
Tensile strength (ISO 8339)	2.4 – 3.0 MPa
Elongation at break (ISO 8339)	200-250%
Good chemical resistance	To water, mineral oils, aliphatic solvents, greases, dissolved organic acids and alkaline.
Poor chemical resistance	To aromatic solvent, concentrated acids, chlorate hydrocarbons.

**ADOS****ADOS HS-E High Strength Elastomeric Adhesive**

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V. Package Description

Part Number	Size
8385	Grey – 400g Cartridge
8386	Black – 400g Cartridge
8387	White – 400g Cartridge

VI. Special Precautions**General:**

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Dispose of empty containers safely. All unused product should be disposed of in conformance with local and HSNO regulations, do not contaminate water supply.

First Aid:

Swallowed – Rinse mouth with water.

Eye – Wash with running water. For discomfort seek medical advice.

Skin – Wash with water and soap.

Inhaled – Fresh air. Rest, keep warm.

Refer to Material Safety Data Sheet for more details.

TECHNICAL DATA SHEET Version 01/2015

PRODUCT WARRANTY: CRC offers a conditional warranty of this product for the period of 2 years from the date of manufacture.

DISCLAIMER: All information on this data sheet is based on testing by CRC Industries NZ. All products should be tested for suitability on a particular application prior to actual use. CRC Industries makes no representations or warranties of any kind concerning this data.