CRC MS Adhesive Sealant

CRC Industries (Aust) Pty. Limited - PO Box 199, Castle Hill NSW 1765

I. Product Description

CRC MS Sealant is a high performance, one-component neutral curing adhesive sealant based on MS Polymers. It has excellent primerless adhesion to all materials commonly used in the demanding building, construction and engineering industries. It is ideal where silicone sealants are not suitable.

CRC MS Sealant is formulated for durable bonding, sealing and waterproofing gaps in dilation joints. This innovative product cures quickly in ambient temperatures and retains excellent bond strength, elasticity and tear resistance over the years. It skins over in a short time resisting dust and dirt pickup and can be applied in thick layers without shrinking or bubbling.

CRC MS Sealant will not stain and is compatible with commonly used paint systems. It will not crack or show signs of aging when exposed to adverse weather conditions and harsh UV radiation. It does not contain solvents, isocyanates and silicones.

II. Features & Benefits

- **Excellent adhesion strength** – To a wide range of substrates commonly used in the building, construction and engineering industries
- **Waterproofs, bonds and seals** – Wide variety of applications, one product does it all.
- **Paintable** – Cured product can be painted with most solvent and water based paints and varnishes
- **Extreme flexibility** – Excellent mechanical properties over a wide temperature range for use in dilation joints
- **Will not crack** – No cracks and no signs of aging
- **Interior and exterior use**
- **Low VOC, low odour** – Contains no solvents or isocyanates
- **UV Resistant -** Resistant to adverse weather conditions and UV exposure
- **Durability** – Excellent bond strength, tear resistance and elasticity is maintained over time, even years after application.
- **Non-slump** – Suitable for vertical joints
- **Extreme low shrinkage** – Less than 1%, allows application in thick layers
- **Non-bubbling** – The surface stays smooth and intact
- **Non-staining**
- **Primerless one-component product** – Convenient and time saving on construction sites
- **Cures fast** – For increased productivity
- **Skins over in a short time** – To resist dirt and dust pickup
- **Easy handling** – Can be extruded from cartridges with a low force even in low temperatures
- **Totally chemically neutral**
- **Good chemical resistance** – To water, mild solvents, mineral oils, fat, low concentration anorganic acids and bases
- **Easy clean up** – Just wipe up any excess uncured product with a wet cloth
- **Use on most substrates** – PVC, concrete, brick, timber, glass, aluminium, iron, steel, stainless steel, copper, ceramic, plywood, many of the newly developed materials for construction, fiberglass, various plastics
- **Contains no solvents or isocyanates**

III. Application and Directions

Preparation for use on dilation joints:

- The surface of the dilation joint must be hard, clean, dust and grease free. Remove all separated and badly attached pieces.
- For a clean finish, mask edges of joints with masking tape.
- For the optimal elastic characteristics of the sealant, a correct width/depth ratio is important 2:1 with 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 6mm, the maximum 20mm.

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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.
- Remove masking tape before the sealant starts to harden.

Clean Up:

- Any excess uncured product can be cleaned with a wet cloth
- Fresh sealant and tools can be cleaned with methylated spirits.

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:

Type	Adhesive sealant
Composition	MS polymer
Curing mechanism	Moisture curing – Non-acid
Colour	Available in white, clear, black, grey
Odour	None
VOC	Low
Viscosity	Paste
Specific gravity	1460 ± 10 kg/m^3
Skin formation time (23℃ / 50% rel. humidity)	20-30 minutes
Cure time (23℃ / 50% rel. humidity)	2-3 mm/day
Application temperature	5℃ to 30℃

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Performance Characteristics:

Hardness Shore A (ISO 868)	15-20
Change in volume (ISO 10563)	< 1%
Tensile strength (ISO 8339)	0.40-0.60 MPa
Module E 100% (ISO 8339)	0.20-0.30 MPa
Elongation at break (ISO 8339)	600-700%
Tensile Strength (ISO 37 rod 1)	1.00-1.40 MPa
Elongation at break (ISO 37 rod)	500-700%
Service temperature	-40℃ to +90℃
Maximum joint depth	20 mm
Maximum joint width	20 mm
Good chemical resistance	To water, mild solvents, mineral oils, fat, low concentration anorganic acids and bases

V. Package Description

Part Number	Size	
8361	400g cartridge	White
8362	300g cartridge	Clear
8363	400g cartridge	Black
8364	400g cartridge	Grey

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 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.

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