



Hybrid MS Polyurethane Sealant

Hybrid silicone polymer elastomeric sealant and adhesive.

DESCRIPTION

Hybrid MS Polyurethane Sealant is a one part polyurethane based elastomeric sealant and adhesive with high bonding properties.

ADVANTAGES

Hybrid MS Polyurethane Sealant delivers the following advantages;

- Zero VOC and isocyanate free.
- Wide movement capability, accommodation $\pm 25\%$.
- UV resistant.
- Excellent adhesion to most common building substrates.
- Acoustic rated.
- Instant adhesion and fast skinning time.
- Paintable.
- Suitable for interior & exterior use.

AREAS OF USE

Hybrid MS Polyurethane Sealant is suitable for use in the following areas;

- With Crommelin[®] Membranes*
- Precast & Tilt Panel Expansion Joints
- Perimeter Sealing of Windows
- Sealing of Sheet Metal & Building Cladding
- General Sealing of Construction Joints

*Excludes Crommelin[®] Bitflex[®] & Blackseal.

SUBSTRATES

Hybrid MS Polyurethane Sealant is suitable for application on;

- Concrete, Cement Render, Plaster, Brick, Compressed Cement Sheeting.
- Most Common Building Substrates, including rubber, glass, copper, aluminium, steel and most plastics.

TESTING APPROVALS AND STANDARDS

Hybrid MS Polyurethane Sealant is compliant with the following standards;

- ASTM C920, Type S, Grade NS, Class 25 Use: NT, A & M.

TECHNICAL DATA (@ 25°C)

Skimming Time:	15 minutes
Cure Rate:	3mm per 24hours
Colour:	Grey
Shelf Life:	18 months when stored at below 25°C in original, un-opened sausage.

ANCILLARY PRODUCTS

- Crommelin[®] Polyfab – reinforcing fabric
- Crommelin[®] Polyfab BB – bond breaker

TEST DATA

Properties	Measurement /Standard	Test Results
Specific Gravity		Approx. 1.6
Slump Resistance	ISO 7390	Excellent
Joint Movement	ISO 11600	$\pm 25\%$
Hardness	Shore A – 24H	30
	Shore A – 7D	40
Elongation		@ break 450%
Service Temperature		-40°C to +80°C (cyclic)
Solid Content		98%
Tensile Strength		1.5 MPa

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Elastomeric sealant and adhesive.

SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/

- Surfaces must be clean, dry, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.

APPLICATION CONDITIONS

- Application temperature between 5°C - 27°C.
- Application humidity between 30% - 70%.

APPLICATION

Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Install an approved closed or open cell round polyurethane joint backing to control the depth of sealant. Use correct size backing rod to achieve recommended compression (Approx. 20 – 30%).
- A self-adhesive bond breaker tape can be used when the joint shape does not allow the use of joint backing.
- Dry tooling is recommended immediately after application of sealant.

CLEAN UP

- Best results are obtained by masking prior to sealing to avoid the necessity for clean-up. However, if sealant is applied to areas where it is unwanted, clean up uncured sealant using acetone and a cloth.
- Cured material may be removed mechanically.

PRECAUTIONS

- Not suitable for prolonged immersion in water without a suitable membrane top coat.

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Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.

TRANSPORT AND STORAGE

- Size: 600ml Sausages & 300ml Cartridges
- Weight: 700g
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

SAFETY AND FIRST AID

Hybrid MS Polyurethane Sealant Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

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Elastomeric sealant and adhesive.

ESTIMATING TABLE

Joint size in mm	Litre Polyurethane per metre run	Metre run per Sausage (600 ml)
5 x 5	0.025	24
5 x 10	0.050	12
5 x 15	0.075	8.0
10 x 10	0.100	6.0
10 x 15	0.150	4.0
10 x 20	0.200	3.0
10 x 25	0.250	2.4
15 x 10	0.150	3.9
15 x 15	0.225	2.7
15 x 20	0.300	2.0
15 x 25	0.375	1.6
15 x 30	0.450	1.3
15 x 40	0.600	1.0
20 x 10	0.200	3.0
20 x 15	0.050	2.0
20 x 20	0.400	1.5
25 x 12.5	0.310	2.0
25 x 15	0.380	1.6
25 x 20	0.500	1.2
25 x 25	0.630	0.9
30 x 15	0.450	1.3
30 x 20	0.600	1.0
30 x 25	0.750	0.8
40 x 20	0.800	0.8
40 x 25	1.000	0.6
40 x 30	1.200	0.5