

FLEX PRO MS-HD

Multi-Purpose Hybrid Polymer Sealant

DESCRIPTION:

FLEX-PRO MS-HD is a moisture curing, industrial grade, high performance sealant based on solvent and isocyanate free, MS polymer technology. Displaying high early strength and flexible properties FLEX-PRO MS-HD is ideally suited for commercial and industrial applications where fast bonding, high movement and vibration absorbing qualities are required. FLEX-PRO MS-HD is suitable for internal and external applications providing outstanding UV resistant and anti-aging characteristics

FEATURES AND BENEFITS:

- User and environmentally friendly – contains no solvents isocyanates, acids or halogens
- Permanently elastic
- Highly flexible
- Low emissions
- Good adhesion on both porous and non-porous substrates
- Excellent durability
- Good weathering resistance, colour stability and UV resistance
- Suitable for use on damp surfaces with no bubble formation
- Good extrudability
- Odourless
- Paintable – see notes
- Colourfast – Non staining
- Does not support fungal growth
- Environmentally friendly

RECOMMENDED USE:

- General sealing and bonding of construction elements
- Material assembly where a tenacious elastic adhesive is required.
- Elastic bonding in vibrating constructions
- Concrete expansion joints
- Masonry control joints
- Sealing where acoustic properties are required
- Perimeter sealing around window and door frames
- Sealing of penetrations in walls or floors
- Sanitary applications

SUBSTRATES:

- Concrete and masonry
- Ceramics, stone, granite, and marble
- Metals including anodized aluminium and steel
- Glass
- Timber
- PVC and rigid plastics

Important: While FLEX-PRO MS-HD maintains excellent adhesion to most common building substrates, preliminary tests are always recommended substrates where adhesion is critical

SURFACE PREPARATION:

All substrates should be clean, sound, dry and free from dirt, dust, wax, oil or grease residues, loose particles and all contaminants that could compromise the adhesion of the sealant.

MASONRY/BRICK/CONCRETE:

Any loose particles or laitance should be removed by hand or mechanical means followed by blowing down surfaces with compressed air. Refer to the RLA range of cementitious and epoxy mortars/coatings for remedial options to surfaces where required

Important: New concrete surface/substrates to be cured at least 21 days before application of FLEX PRO MS_HD

METALS:

Surfaces must be free of rust, scale or oxide films. Oil and grease residues to be removed with suitable solvent or degreasing solution. (E.g. MEK, Acetone). Ensure all trace solvent residues are removed prior to the application of FLEX PRO MS HD.

PLASTICS:

FLEX-PRO MS-HD has good adhesion to rigid plastics, polystyrene, PVC, ABS, Polyamide, PMMA, fibreglass-reinforced epoxy and polyester. All releasing agents, processing oils and other protective agents to be removed

Important: Avoid bonding plastics including PMMA and polycarbonate in stress-loading applications to avoid possible stress cracking and crazing in these substrates. FLEX PRO MS-HD is not suitable for PE, PP or PTFE.

PRIMING:

Priming is generally not required for common building substrates. Highly porous substrates should be primed with RLA PRIMER PU to avoid air entrapment in the uncured sealant caused by rapid temperature rises in the substrate. For immersed applications, surfaces to be primed with RLA PRIMER PU. Always ensure primer is thoroughly dry prior the application of FLEX PRO MS-HD

APPLICATION:

- Application temperature is between 5°C to 35°C
- FLEX-PRO MS-HD can be applied by means of a hand or air operated cartridge or sausage gun
- Avoid 3 sided adhesion to movement joints by installing bond breaker tape or backer rod to joint
- For best performance, the depth of the joint should be half the width for joints greater than 10mm.
- Extrude the FLEX-PRO MS-HD into the joint ensuring that no air is trapped in the joint
- Wide joints may require multiple passes of the application gun to make sure that sealant is in full contact with the sides and bottom of the joint
- Tool off sealant to ensure full contact to all sides of the joint and the entirety of the joint volume filled. Tooling will also break any air bubbles within the sealant bead and displace any air pockets within the joint
- Finally tooling of the joint surface can be done effectively with a spatula to ensure a concave finish
- When masking tape is used for maintaining neat/straight lines, ensure the tape is removed from sides of joint before the sealant starts to skin over or cures
- In conditions of low atmospheric humidity, it is advisable to spray the surface with a fine mist of water to promote early skinning once joint is finished

COVERAGE:

The following is a guide for expected length coverage per 600ml sausage of FLEX-PRO MS-HD 600ml sausage:

JOINT in mm	APPROX LINEAR METERS
12mm x 12mm	3.9
15mm x 7mm	4.1
20mm x 10mm	3.0
30mm x 15mm	1.5

PAINTABILITY

FLEX-PRO MS-HD can be painted after fully cured with water based systems.

Important: Due to the number of paints and variants available, it is always recommended to conduct field tests to ensure compatibility with the desired coating. Some coatings can crack or craze as a direct result of the environmental cyclical movement.

PACKAGING

Available in 600ml Sausages

STORAGE / SHELF LIFE:

- Store sealant in original unopened packaging in a dry location
- Storage temperatures should not exceed 30°C or lower than +10°C for prolonged periods
- Shelf life of product is 24 months from date of manufacturing

TECHNICAL DATA:

PRODUCT INFORMATION:	
Appearance	Paste
Colour	Grey, Black & White
Tack Free @+23°C and 50%RH	10 minutes
PERFORMANCE DATA:	
Sag (GB/T 1377.6)	0mm
Shore A (ISO 868)	50
Elongation at break	>550%
Tensile Strength	>2.8MPa
Shear Strength	>2.3MPa
UV resistance	Good. No appearance change
Shrinkage (ISO 10563)	≤ 1.5%
JOINT WIDTH	
Maximum joint width	30mm
Minimum joint width	5mm

PRECAUTIONS / LIMITATIONS

- Not suitable for bonding aquariums
- Not suitable for uses with bituminous surfaces/materials
- Do not apply in temperatures below 5°C or above 35°C
- Not suitable as a glazing sealant
- FLEX-PRO MS-HD can be applied to a wide variety of substrates, however due variations of specific substances such as plastics per manufacturer, a preliminary compatibility/adhesion test is always recommended
- For best results use opened sausage the same day to avoid sealant curing in the nozzle
- Avoid spilling sealant on surface materials to prevent possible staining by interaction with other components and finishes. (Test is always recommend first)
- For specific chemical resistance please contact RLA Technical Service Department.
- FLEX-PRO MS-HD can be used for adhering of and sealing on natural stone
- Avoid exposure to high levels of chlorine
- Not suitable for swimming pools or hot tubs
- Will not adhere to polypropylene, polyethylene or polycarbonate.

SAFETY & HANDLING

- Avoid contact with skin and eyes.
- Wear eye protection and suitable gloves and clothing.
- The Safety Data Sheet is available upon request.

FIRST AID:

- Skin: Wash off with warm water and soap.
- If swallowed give a glass of water.
- IF ON SKIN wash skin with soap and water.
- If skin irritation occurs, get medical advice/attention.
- IF IN EYES Rinse carefully with water for several minutes.
- If eye irritation persists, get medical advice/attention
- For advice or if you feel unwell, contact a Poisons Information Centre: Australia ph. 131126,
- New Zealand ph. 0800 764 766 or a doctor at once

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with the relevant Australian Standard and the Floorcovering Manufacturer's instructions, and the floorcoverings must have been subject to normal traffic conditions.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.

The consumer is responsible for any expenses incurred in making a claim.

A claim form can be requested by:

PHONE: 1800 242 931

EMAIL: info@rlapolymers.com.au

MAIL: 215 Colchester Road Kilsyth Victoria 3137
(Attention Customer Service)

WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.

Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

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