

Technical Data Sheet

Emer-Seal MS

One part elastomeric high performance paintable sealant

USES

Sealing joints in concrete panels, marble, granite blockwork and brickwork. And also for use in sealing joints around aluminium and timber door and window frames and between metal and some plastics.

ADVANTAGES

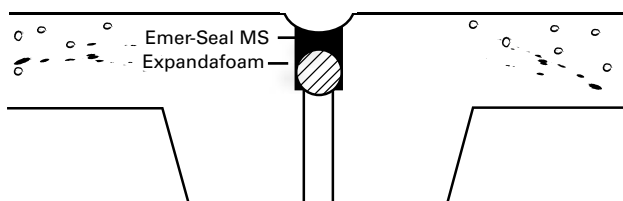
- Outstanding weathering and UV resistance
- Excellent primerless adhesion to timber, masonry, aluminium, metal and ceramics
- Paintable with water based acrylic paints
- Will not stain masonry or other surfaces
- Neutral cure - will not corrode metals
- Low odour
- Contains no isocyanate

DESCRIPTION

Emer-Seal MS is a high performance elastomeric joint sealant based on hybrid polymer technology. Emer-Seal MS offers the weathering and adhesion performance of a silicone sealant together with the toughness and durability of a polyurethane sealant.

DESIGN CRITERIA

Emer-Seal MS may be applied in joints with typically a minimum joint size of 5 mm wide by 8 mm deep for porous surfaces or 5 mm wide by 5 mm deep for non-porous surfaces, and generally a maximum joint width of no more than 40 mm.



Sealing joints in concrete and other masonry products.

PROPERTIES

Data quoted are typical for this product but do not constitute a specification

Form: Smooth, non-slump paste

Movement

accommodation factor: Total 40% (+/- 20%)

Cure: Chemically cures to an elastic solid

Skinning time at 23°C: 100 min - 200 min @50%RH

Cure time at 25°C: >2mm / 24h @ 50%RH

Typical hardness

shore 'A': 25 +/-5

100% Modulus: 0.34 MPa

Chemical resistance to occasional spillage: Good resistance to dilute acids and alkalis

Continuous service

temperature range: -40°C to 100°C

Solids content: 98% approximately

Density: 1.5 g/cm³

Flammability: Will support combustion

MAINTENANCE

There are no special requirements, however, any damage found during routine inspections should be cut out and replaced.

SPECIFICATION CLAUSES

Where so indicated on the drawings joints are to be sealed using Emer-Seal MS, modified silicone sealant as supplied by Parchem.

APPLICATION INSTRUCTIONS

PREPARATION

The joint surfaces must be thoroughly dry, clean and frost free. Joint surfaces must be clean, dry and free from frost. Remove all dirt, laitance, loose materials and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces. Non-porous surfaces should be degreased using Solvent 10.

In all joints a bond breaker must be used to prevent sealant contact with the back of the joint, to allow optimum sealant performance.

In shallow joints self-adhesive polyethylene tape can be used.

Deep joints should incorporate a backing strip such as Expandafoam PEF Rod to support the sealant while also acting as a bond breaker.

PRIMING REQUIREMENTS

Good adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers. On some surfaces however, adhesion may be improved by the use of a primer - refer to your local Parchem office for advice. To achieve optimum adhesion to concrete, particularly if subject to "ponding" water, Primer 13 should be used.

GUN LOADING

Emer-Seal MS is applied using a suitable bulk / sachet gun. Insert the sachet into the gun, cut a slit at the top of the sachet, replace the end cap and nozzle and apply the sealant.

APPLICATION

Extrude the sealant firmly into joint to ensure complete contact with joint faces. Tool the sealant into the joint.

CLEANING

Clean tools immediately after use with Solvent 10.

LIMITATIONS

Do not apply Emer-Seal MS to bituminous surfaces nor allow bitumen to contact Emer-Seal MS. Not for use under full immersion - consider using Emer-Seal CR in this situation.

PAINTABILITY

Emer-Seal MS is paintable with water based acrylic paints typically after 3 hours curing (depending on climatic conditions) and for best results painting should be done no later than 7 days after sealant application. Solvent based paints (eg. enamels) however may not be suitable; always conduct initial site trials before proceeding.

The flexibility of coatings being applied over Emer-Seal MS should also be taken into consideration to ensure the coating can accommodate the expected movement in the joint.

SUPPLY

Supply 600 ml sausages, 20 per carton.

COVERAGE

On average one 600 ml sausage will supply 12 metres of 10 mm x 5 mm sealant bead.

STORAGE

Shelf life 12 months. Store in a cool dry place.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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