TOTAL SEAL 35MS

SINGLE COMPONENT, PERMANENTLY FLEXIBLE JOINT SEALANT

Product Overview

Total Seal 35MS is a high performance, hybrid polymer construction joint sealant. It cures to form a seal that is tough, elastic and weatherproof with good chemical resistance. Total Seal 35MS is a low modulus product ideal for sealing joints where high joint movement is anticipated.
Total Seal 35MS is water, solvent and isocyanate free as well as being low odour, VOC-free and satisfies the requirements for the Green Building Council of Australia (GBCA).

Product Features

- Permanently flexible; ±25% joint movement capability
- Excellent resistance to weathering and UV radiation, resists yellowing
- Excellent long-term resistance to seawater, caustic solutions and cleaning agents
- Will not sag or slump, shrink, or bubble during curing
- Strong adhesion to a wide range of substrates without priming
- Suitable for use in waterproofing applications - meets AS3740-2010
- Excellent resistance to weathering agents like UV, sunlight, frost and rain
- Mould Resistant – Will not support fungal growth
- Easy to apply & tool off
- Made in Australia for Australian conditions

Typical Applications

- As a perimeter fillet beneath water-based waterproofing membranes
- Sealing expansion and control joints in tiled areas
- Sealing expansion joints and window and door openings in insulated wall systems
- Sealing roof flashings
- Sealing concrete and masonry walls, window and door frame perimeters, external facades and cladding

General Application Details

Surface preparation:
All the substrates must be dry and free of dust, dirt, oil, grease and loose particles. Metal surfaces should be rust free. This can be achieved by wire brushing or grit blasting.
Lightly contaminated surfaces should be wiped with Isopropyl alcohol prior to application of Total Seal 35MS. Apply isopropyl alcohol to a lint-free cloth and wipe onto the surface to be cleaned to remove the majority of the contaminant, remove any remaining alcohol with a clean dry cloth.
For more heavily contaminated surfaces or where isopropyl alcohol does not remove the contaminant, a generic wax and grease remover should be used.
Adhesion to metals & some other smooth non-porous surfaces can be improved with light abrasion prior to cleaning with isopropyl alcohol.
Manufacturers of plastics should be consulted about suitable cleaning methods

Application procedure:
Use a suitable sized foam backing rod to prevent three-sided joint contact impeding the free and even deformation of the sealant in a cyclic joint
Apply sealant in a steady, continuous flow by pushing the sealant ahead of the nozzle so that it completely fills the joint and is in contact with both sides. Immediately after application, tool the sealant using a spatula. A dilute soap/water detergent solution may be used to tool Total Seal 35MS, although the solution should be pre-tested to confirm it does not affect the sealant in any way, as this can compromise long-term durability. Avoid contact with alcohol or other solvent cleaners during cure.

Painting
Flexible, acrylic-based emulsion coatings are best over Total Seal 35MS. Less flexible interior coatings are likely to crack due to their inflexibility. Oil based coatings and coatings containing a solvent are likely to remain tacky for an extended period when used over Total Seal 35MS

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Important Notes

- Avoid exposure to high levels of chlorine
- Not recommended for use in joints deeper than 20mm
- Do not use over bituminous surfaces
- Not suitable for swimming pools or hot tubs
- Avoid contact with alcohol & other solvent cleaners during curing phase
- Not fire rated or glazing sealant. Not suitable for glazing use with glass, acrylic or polycarbonate sheets

Packaging

- 600mL (sausage) Box quantity 15

General Technical Data

Compatible Substrates	
Concrete	Ceramic
Cement Sheeting	Plastics (Pretest)
Masonry	ABS
Plasterboard	Aluminium
Steel	Glass
Timber	XPS & EPS Polystyrene
Physical Properties	
Specific Gravity	Ca. 1.45
Sag	Nil @ 25°C
Shrinkage	0%
Skin Time	Ca. 30-40 minutes @ 23°C / 50% RH
Cure Rate	Ca. 2mm / day @ 23°C / 50% RH
Full Cure	After 7 days
Durometer Hardness	Ca. Shore A 25
Service Temperature	-40°C to 100°C
Modulus – 50%	Ca. 0.2MPa
Modulus – 100%	Ca. 0.3MPa
Max. Tensile Strength	Ca. 1.4MPa
Elongation (ISO 37)	>450%
Application Temperature	5°C to 40°C

Contact Details

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Issue date: May 2025