

MARINEFLEX PRODUCT DATA SHEET

Marineflex is a single-part, high modulus, moisture-curing, strong adhesive and sealant based on Trade Sealants carefully engineered Polymer Technology. Offering outstanding performance across a wide variety of industrial applications, it has excellent adhesion to timber, glass, metals, brickwork, most plastics and concrete and does not normally require a primer.

Marineflex is a paintable adhesive sealant which has been designed to seal joints where both strong bond and high movement is required.

Marineflex is solvent-free and can therefore be used in circumstances which do not permit highly solvented or harmful sealants but still require all of the features and advantages of a polyurethane adhesive and sealant.

MARINEFLEX FEATURES

- High modulus polyurethane marine adhesive and sealant
- Conforms to ISO 11600
- Good movement accommodation
- Isocyanate and silicone free
- Odour free, non staining and bubble free curing
- Outstanding adhesion to coated timber, coated metals, PVC-U, brickwork, polycarbonate & glass
- Permanent elastic sealing with high adhesive strength to a wide variety of substrates including wood, concrete, tiles, steel, aluminium, zinc, copper, brass, stainless steel, glass, polyester
- Highly resistant to ageing and weathering
- Paintable. (Testing is recommended)

HEALTH & SAFETY

- Non-flammable
- No known health hazards associated with Marineflex when used as recommended
- Wash hands immediately after use

LIMITATIONS

- Not for use with bitumen, marble or natural stone
- Do not use for aquaria construction
- Not suitable for glazing applications
- Do not use with plastics such as PP, PE, PTFE or other low surface energy materials
- Ideally maximum joint depth is 15mm

TECHNICAL DATA

ADHESION	Excellent unprimed adhesion to timber, coated metals, PVC-U, polycarbonate, brick, glass/glazed surfaces
BASE TECHNOLOGY	Trade Sealants hybrid polymer
MOVEMENT ACCOMMODATION FACTOR	± 20%
SERVICE LIFE (predicted)	20+ years
SERVICE TEMPERATURE RANGE	-30°C to + 80°C
SHORE A HARDNESS	60 ±5
ELONGATION AT BREAK	>350%
UV RESISTANCE	Excellent
CHEMICAL RESISTANCE	Excellent to dilute acids/alkalis
MOULD RESISTANCE	Very Good
STAINING	Nil
SLUMP	None
SPECIFIC GRAVITY	1.59 g/cm ³
TENSILE (100% elongation)	2.70 MPa
CURING SYSTEM	Neutral cure

APPLICATION DATA

APPLICATION TEMPERATURE RANGE	+5°C to + 30°C
CURING RATE	2-3mm per 24 hours at 23°C @ 50% RH. Lower temperatures and drier conditions will result in a slower rate of cure.
SHELF LIFE	12 months
SKIN TIME	Skin forms after approximately 25 minutes
TACK FREE TIME	Approximately 40 minutes (23°C @ 65% RH)
WORKING TIME	Approximately <25 minutes depending on conditions

