KUT DURASEAL MS 100

Single Component, Primeless, Non Staining Facade Sealant

JOS – 03 - 0104

DESCRIPTION

KUT DURASEAL MS 100 is a highly durable tough, elastomeric joint sealant. It is based upon hybrid silyl modified polyether technology, suitable for use over a wide range of external and internal building applications. **KUT DURASEAL MS 100** has excellent weather resistance and excellent primer-less adhesion to most building substrates. It does not stain concrete, marble and other masonry surfaces.

USES

KUT DURASEAL MS 100 is a formulated stain-free sealant for joints in and around concrete, brick, masonry, pre-cast panels, stone cladding, windows, doors and fibre cement sheeting.

ADVANTAGES

- **KUT DURASEAL MS 100** is used as a sealant for acoustic design.
- Good adhesion to silicone, polysulphide or polyurethane contaminant.
- Will not stain masonry, marble or other substrate.
- Excellent primer-less adhesion to most commonly available building materials.
- Can be applied to damp or dry substrates
- Fast neutral cure.
- Highly flexible with excellent application characteristics.
- Low odour and environmentally friendly.
- Low modulus and high movement capabilities.
- Excellent UV and weather resistance

STANDARDS

KUT DURASEAL MS 100 complies with **ISO 11600 Type F 25LM**

TYPICAL PROPERTIES

PROPERTIES		
Form		Smooth non-slump paste
Flash Point		> 65°C
Cure rate		3 mm in 24 hrs, 8 mm in 7 days@ 20°C / 50% RH
Cure Mechanism		Neutral Cure
Skinning Time		25 min @ 20°C / 50% RH
Total Hardness Shore A @ 20°C		20
Application temperature range		5°C to 50°C
Solid content		100% approximate
Cured Sealant		
Form		Elastic Solid
Colour		White, Grey, Black, Portland, Buff
Modulus Classification		Low
UV Resistance		Excellent
Total Hardness Shore A @ 20°C		20
Service temperature range		-40°C to 70°C
Movement Accommodation Factor		
Butt Joints	Unprimed	25%
	Primed	50%
Lap Joints	Unprimed	50%
	Primed	100%

Uncured KUT DURASEAL MS 100

Design criteria
Movement Accommodation Factor (MAF)
The Movement Accommodation Factor is a figure quoted indicating the ability of a sealant to accommodate joint movement throughout the service life of that sealant, expressed as a percentage of the joint width at time of sealing.

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To calculate the theoretical / minimum joint width knowing the expected maximum working movement of the joint: $W = \frac{M}{MAF/100} + M$

W = Joint width
M = Expected maximum working movement of joint
MAF = Movement Accommodation Factor of that sealant. For further advice on joint design see **BS 6093 1993**.

Joint preparation

Joint surfaces must be clean and free from frost and completely dry. 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 A Degreaser. In all joints polyethylene foam backing rod should be used to prevent sealant contact with the back of the joint, and hence allow optimum performance. In shallow joints debonding tape can be used

Priming

Good adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers. For nonporous substrates in continuous immersion use **KUT POLYSULFIDE PRIMER No. 2.** On some porous surfaces such as GRC, adhesion will be improved by the use of a primer – contact **ASPEC** Technical Dept. for further advice.

Application Instructions

Cartridge: Cut the end of the nozzle to desired bead size at a 45°angle. Extrude the sealant firmly into joint to ensure complete contact with joint faces. Smooth finish if necessary, use a spatula wetted with a dilute detergent solution and finish.

Clean up

Immediately after use and before sealant has cured, clean equipment with **KUT SOLVENT EP or PS**. Cured Sealant may be removed by cutting with a sharp-edged tool & thin films by abrading.

Estimating

KUT DURASEAL MS 100 is supplied in 380 ml cartridges. To work out quantities (including wastage) use the following formula:

$\frac{S}{W \times D}$ = Lineal metres per pack

S = Packaging size in millilitres
W = Sealant profile width in millimetres
D = Sealant profile depth in millimetres

Curing

KUT DURASEAL MS 100 is a neutral cure sealant. Initial cure is within 24 hours, and complete cure takes approximately 7 days.

PACKAGING AND COVERAGE

"**KUT DURASEAL MS 100**" is available in 0.380 litre cartridge.

Coverage Chart

Joint size in mm (w:d)	Litre per meter run	Meter per 0.380 litre cartridge
3 x 5	0.015	25.3
3 x 10	0.030	12.66
5 x 5	0.025	15.2
5 x 10	0.050	7.6
10 x 5	0.050	7.6
10 x 10	0.100	3.8
15 x 10	0.150	2.54
20 x 10	0.200	1.9
25 x 15	0.380	1.0

STORAGE

"**KUT DURASEAL MS 100**" in original sealed containers when kept in dry conditions at 5° C-27° C has a shelf life of 12 months.

HEALTH AND SAFETY

KUT DURASEAL MS 100 does not cause any significant hazard. For additional information see relevant **Product Safety Data Sheet**.

Wear suitable protective gloves and eye/face protection. In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. Hands must be thoroughly washed with soap and water before eating or smoking. If discomfort persists or any breathing difficulty occurs, or if swallowed, **seek immediate medical attention.** Cured sealant should not be burned off due to generation of toxic fumes. Empty containers should be disposed off in accordance with local waste disposal regulations.

Distributor: