

MEGAPOXY 40

Issue 2, 11/2000

Polyurethane elastomeric fuel and chemical resistant sealant pourable and gunning grades

Summary

Megaprene 40 is a two component polyurethane elastomer based sealant which is recommended for use in moving joints in bridges, reservoirs, dams, pits, channels, sewerage treatment schemes and tanks. Due to its fuel and chemical resistance it is also suitable for sealing joints in car parts. Megaprene 40 complies with the requirements of Australian standard AS 1527-1974 on masonry surfaces. The sealant is resistant to wide range of chemicals, water, U.V, oils and solvents.

Product specification

Pot life: 2 hours @ 25°C

Cure time: Initial cure – 6 hours @ 25°C, full cure takes 7 days.

Colour: Black

Modulus of Elasticity: 0.10 MPa

Hardness (shore A): 40 @ 25°C

Adhesion: Excellent to concrete, brick and other masonry materials.

Temperature: Suitable for operating temperatures -20°C to 60°C

Chemical Resistance: Resistant to alkalis occurring in building construction when fully cured, also petrol, Skydrol hydraulic fluid, aviation fuels, xylol, 10% sulphuric acid, raw sugar, acetic acid 10%.

Application data

Joint design

The maximum permanent expansion must not be more than 25% of the joint width. For joints less than 12mm wide the permanent joint movements must not be more than 20%. Maximum joint width 30mm.

Joint preparation

Surfaces must be sound, free from dirt, grease and all other contaminants. Use backer rod to adjust joint width to depth ratio of 2:1. For joints below 12mm width the ratio should be 1:1. The minimum depth must not be less than 8mm. Do not apply sealant to oily surfaces, bitumen or tar impregnated materials. Cover edges of joint with masking tape.

Priming

Use Megaprene 40 Primer. This is a two part epoxy resin based primer. Mix part 'A' and part 'B' together for two minutes and apply by brush to joint side surfaces. Avoid applying primer to backing material. Allow Megaprene 40 Primer to become touch dry (3-4 hours before applying the sealant).

Sealant Application

Megaprene 40 is supplied as a two component kit with pre-metered part 'A' (base) and part 'B' (hardener). Transfer all of the contents of the hardener (part 'B') into the part 'A' (base) and mix thoroughly by using a power drill fitted with a stirrup stirrer. Mix at slow speed for minimum of 5 minutes moving the stirrer up and down to scrape the sides and

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Application data (continued)	bottom of the container. Avoid beating or whipping of air. Hand mixing should not be undertaken as it is likely to result in under-mixing which will prevent proper curing. Megaprene 40 is then ready for application into the joint cavity.
Packaging	<ul style="list-style-type: none">• Megaprene 40 Pourable 4 litre kit• Megaprene 40 Gun Grade 3.4 kg kit (2.5 lt)• Megaprene 40 Primer 600ml kit
Cleaning	Uncured Megaprene 40 can be removed by Megapoxy thinners, however if cured, mechanical abrasion may be necessary.
Storage	The sealant should be stored in a cool dry place. Shelf life of both Megaprene 40 Pourable and Gun Grade is 1 year from manufacture.
Safety precautions	Avoid prolonged contact with skin, wash affected areas with soap and warm water. Please for further information please refer to MSDS.
Technical service	All purchasers of MEGAPOXY products are invited to avail themselves of our technical service on epoxy base materials. The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.

Please do not hesitate to contact us, for any additional information.