

TECHNICAL BULLETIN #33

SAMIfilla EC

Crack Sealer Emulsion

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Description

SAMIfilla EC is an SBS polymer modified emulsion crack sealer suitable for flexible bituminous pavements, having excellent resilience and adhesion properties.

Benefits

- Easy to use - cold applied - no heating
- Works in damp cracks
- Cracks do not need drying out or priming
- Able to withstand crack movements in the order of 5 percent, without losing bond due to its excellent resilience and adhesive properties
- Easy to apply with either pressurised spray equipment with hand wand attachment, or apply directly with modified watering can
- Able to seal fine cracks of around 1mm width to large cracks of around 20mm
- Traffickable immediately after sanding

Applications

Crack Sealant

Any flexible asphalt or spray sealed bitumen pavement with cracks between 1mm to 20mm wide; for cracks wider than 20mm, use SAMIfilla HM hot applied crack sealer.

Pothole Repair Mix

Economical alternative to cold mix or hot mix patching. Dry the pothole, prime, then place 5, 7 or 10mm aggregate, pour SAMIfilla EC over aggregate until all aggregate is adequately covered. Spread dry sand over the top for immediate trafficking.

Specification

<u>Property</u>	<u>Test Method</u>	<u>SAMIfilla EC</u>
Particle charge	AS/NZS 2341.22	Positive
Residue from evaporation	AS/NZS 2341.23	62% min. by mass
Viscosity	MBT 11	50 mPa.s
Sieve residue	AS/NZS 2341.26	0.25% min. by mass

Crack Preparation

Usually none, however if full of debris, blow or clean out to a depth of approximately 15-20mm. Blowing out with compressed air is recommended as it will also remove loose aggregate within the bitumen seal to provide good bond for the SAMIfilla EC. No priming is required.

Cracks DO NOT need to be dry - SAMIfilla EC will handle a damp crack.

Application of SAMIFILLA EC

SAMIfilla EC can be applied through a pressurised tank with an external wand attachment with ON/OFF valve, through a modified watering can, or a specially built hand applicator.

SAMIfilla EC comes ready to use. Agitation or mixing is only recommended if it has not been used within three months. Mixing could be done by turning the drum on its side and rolling it for a few minutes.

Note: Store SAMIfilla EC to avoid freezing, as it will cause the product to 'break' and separate making it unusable.

Place the SAMIfilla EC directly into the cracks flush with the top of the pavement, then spread dry unwashed sand/grit into the crack sealer for immediate trafficking.

You may wish to 'stripe' the cracks by brushing with a bristle broom along the cracks. This necessitates a slight over application of the product. The stripe width is dictated by the width of the broom.

At an ambient temperature of 20°C it may be expected that the sealant will take up to 3 hours to fully cure. Under these conditions it may be trafficked immediately after sanding. Again, dry unwashed sand/grit should be spread over the crack sealer.

When filling cracks which are greater than 5mm wide the SAMIfilla EC may be mixed with a filler (sand) to fill the crack, then apply a layer of SAMIfilla over top of the filler to seal off.

Cleaning of Equipment

Thoroughly flush all equipment with water, then clean all residue remaining with solvent (eg. turps, diesel or kerosene).

Dilution

For very fine cracks, especially in cooler weather conditions, you may dilute the SAMIfilla EC by adding up to 10 to 15 percent of clean water to enable it to flow easier. Otherwise SAMIfilla EC should be used as it is.

Availability

SAMIfilla EC is available in 20 litre containers or 200 litre drums.

Storage

SAMIfilla EC should be stored out of the weather and with lids secure. The product has a shelf life of 3-6 months. If drums are to be stored for longer than 4 weeks, lay the drums on their side, and "roll" the drums around every 3-4 weeks to ensure the product is kept mixed. The storage life will depend on the amount of "rolling" the drums/ containers get. The more regular the drums are rolled during storage, the longer the shelf life will be.

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