



ULTRA-SEAL 45 & 60

Overbanding, Kerb Sealing and Crack Repair
Asphalt and Concrete

Description

Ultra-Seal 45 & 60 are micro textured, high friction, skid resistant, general purpose sealants used for overbanding, repairing cracks and kerb sealing in asphalt and concrete surfaces. **Ultra-Seal 45** comprises fine aggregate with a PSV of 45 and **Ultra-Seal 60** comprises aggregate with a PSV of 60. They are designed to achieve an in service SRV value of approximately 45 and 60 respectively.

The material is a hot-applied, polymer modified, bituminous compound with superior crack filling and sealing properties along with effective adhesion. It creates an impervious band and prolongs the service life of the surface. An Ultra-Seal repair is fast and simple yet effective and can be re-opened to traffic as soon as the material has cooled with minimal disruption to road and airfield users. The final result is a highly ductile and durable repair.

Application

- Roads and Highways
- All Airfield Pavements
- Industrial Hardstandings
- Surface Car Parks

Benefits

- No waste
- Fast and simple application
- Cost effective
- Ductile
- Seals defects around asphalt repairs
- Optional SRV values
- Apply any time of year

Technical Specification

SPECIFIC GRAVITY RANGE	1.4-1.7 ± 0.05
SOFTENING POINT BS2499:1993	85±15°C
FLOW RESISTANCE BS2499:1993	≤10mm
PENETRATION VALUE BS2499:1993	25±10dmm
SKID RESISTANCE ULTRA-SEAL 45	≥45
SKID RESISTANCE ULTRA-SEAL 60	≥60
MAXIMUM SAFE HEATING TEMP.	210°C
FLASH POINT	≥250°C
MINIMUM APPLICATION TEMP.	0°C
PRODUCT APPLICATION TEMP.	180°C±10°C

Installation

WEATHER CONDITIONS

The material can be applied when the ambient temperature is 0°C and rising providing the surface is dry and free of frost and salt deposits.

PREPARATION OF THE SURFACE

The area to be repaired should be thoroughly cleaned and dried using hot compressed air to remove any dust, debris, loose material and moisture from the crack and adjacent surface area.

A bitumen or rubber resin primer, such as Crete-Prime, is required on concrete surfaces prior to the application of Ultra-Seal. (N.B. Primer is NOT required on asphalt surfaces). The function of the primer is to form an adhesive layer that will fuse with the sealant into the joints. The primer must cover the joint flanks completely by forming a film.



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Installation continued...

It is recommended that a strip of about 1cm width is applied on the surface on both sides of the joint. The primed surface must be touch dry before the Ultra-Seal is applied and free from dust in order to achieve an intensive bond.

SYSTEM INSTALLATION PROCEDURE

The material should be placed in a suitable mixer fitted with thermostatic controls and horizontally mounted agitator. Heat to a temperature of $180\pm 10^{\circ}\text{C}$ and mix until fully homogeneous. Ensure that the temperature controls are observed: maximum safe heating temperature 210°C and application temperature $180\pm 10^{\circ}\text{C}$.

Apply the material by combing across the reflective cracking using a screed box with a suitably designed trailing edge to give the required finished thickness. A fine aggregate dressing can be applied to the hot applied screed to enhance the SRV if required. Excess aggregate should be removed once the system has cooled.

On an average texture depth surface, the application rate for Ultra-Seal 45 and 60 is between 4500-5500lm/metric tonne using a 40mm width overband.

During the curing period of 10-25 minutes (dependent on ambient temperature) no disturbance or trafficking of the repaired area should be permitted. Prior to opening to traffic at the end of the curing period, any excess materials or detritus shall be removed by sweeping or other suitable means.

Packaging and Storage

Ultra-Seal is available in 25kg bags.

Shelf life is 2 years if stored in cool, dry conditions away from direct sunlight and in original unopened packaging.

Warranty

The Company warrants that the materials meet stated specifications at the time of dispatch from the factory. Techniques used for the preparation of the repair prior to application are beyond the Company's control, as are the use and application of the materials. The Company shall not be responsible for improperly applied or misused materials. There shall be no other warranties expressed or implied.

Before Ultra-Seal

