



MAXI-CRETE 40 H Grade

High Modulus Material for Deeper Cracks and Repairs
Asphalt and Concrete

Description

Maxi-Crete 40 H Grade is a high modulus, harder grade material that will not deform under traffic load and that is highly resistant to wear and rutting. Maxi-Crete 40 H Grade is manufactured using a range of components which when combined together produce the ultimate repair for major defects in concrete and asphalt pavements. This hot applied, resin-based compound is installed in depths exceeding 20mm to repair and replace failed concrete and/or asphalt.

Maxi-Crete 40 H Grade has been designed to repair and restore asphalt and concrete to their original profile and to withstand high volume and heavy traffic load. For example, it is ideal for repairs to the slow lane of motorways and aircraft pavements. This material is also perfect to infill deep repairs in combination with HAPAS approved materials, Maxi-Crete 20 and Maxi-Crete F20.

Once installed Maxi-Crete 40 H Grade will accept vehicle and aircraft traffic within 60 minutes of application.

Application

- Roads and Highways
- All Airfield Pavements
- Car Parks

Benefits

- High modulus
- Designed to meet HAPAS requirements
- For deeper repairs
- Ideal with Maxi-Crete 20 and F20
- High friction finish
- Apply any time of year
- Re-open within an hour

Technical Specification

AMBIENT APPLICATION TEMP RANGE	-5°C to 30°C
SPECIFIC GRAVITY	2.2 approx.
MAXIMUM SAFE HEATING TEMP.	220°C
MATERIAL APPLICATION TEMP.	180°C to 210°C
DE-ICING FLUIDS/SALTS	Resistant
PROPERTIES AFTER WHEEL TRACKING @50°C Skid Resistance Value (retained) Texture Depth (retained)	79 1.55mm
TENSILE BOND - ASPHALT SUBSTRATES Tensile adhesion @20°C N/mm ² after heat ageing	1.21
TENSILE BOND - CONCRETE SUBSTRATES Tensile adhesion @20°C N/mm ² after heat ageing	0.56
YIELD STRAIN	>2.5%

Installation

WEATHER CONDITIONS

Installation of the material shall only be carried out at a surface temperature >-5°C. Below freezing temperatures extra care must be taken with preparation and when applying primer to the surface.

PREPARATION OF THE SURFACE

Using suitable equipment saw cut to a depth of approximately 25mm around the area to be treated. Remove all loose and broken concrete and/or asphalt by using either a mechanical planer or breaker. Excavate to the required depth.



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Installation continued...

The excavated area must be cleaned and dried using hot air.

Where necessary tape the edges of the repair to ensure that the finished repair is left clean and free of any excess sealant.

All excavation in concrete surfaces must be primed with Crete-Prime before installing Maxi-Crete H Grade.

Where primer is used on concrete surfaces allow to dry for approximately 15 minutes before applying the Maxi-Crete 40 H Grade material.

SYSTEM INSTALLATION PROCEDURE

Maxi-Crete 40 H Grade is heated to a working temperature of 180/210°C and must be mixed at this temperature for a minimum of 40 minutes prior to use. This will ensure that the material is fully mixed and heated throughout the entire mix. The pre-heated Maxi-Crete H Grade is poured in layers of approx 20/40mm thick. Once the first layer has been applied, allow the compound to cool until repair has reduced in temperature to 60/75°C before applying additional layers as required. Continue applying layers of Maxi-Crete 40 H Grade until level with the surrounding surface. Finally, using a hot iron, level off the Maxi-Crete 40 H Grade to the finished level.

While the material is still hot (40/60°C) apply a dressing of dry, hot (140°C) Chinese Bauxite or other suitable high PSV aggregate. Should the repair fall below the recommended temperature it is possible to re-heat the surface using a suitable gas/air lance to aid the adhesion of the surface aggregates. Allow the repair to cool (approx 60 minutes) and then sweep to remove all surplus aggregate prior to opening the area to traffic.

Storage

Maxi-Crete 40 H Grade is supplied in nominal 25kg bags. The aggregates are delivered to site in 25kg bags Crete-Prime primer is supplied in 5L or 25L cans.

Shelf life is 2 years if stored in cool dry conditions and protected from inclement weather.

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.

