



# MAXI-FLEX 50 & 100

Crack Repairs and Performance Joints in Asphalt and Concrete

## Description

Maxi-Flex is a stress absorbing recessed crack repair system designed to repair reflective and fatigue cracking in rigid and flexible concrete and asphalt highway and airfield surfaces. It is particularly suitable as a high performance joint for aircraft pavements.

**Maxi-Flex 100** is a softer grade than its sister product, **Maxi-Flex 50**, and offers excellent flexibility especially for transitional joint repairs where concrete meets asphalt. The harder grade Maxi-Flex 50 has superior load bearing qualities.

Maxi-Flex has excellent adhesive and compressive properties for improved resistance to wheel track deformation over a wide range of temperatures. It is excellent for kerb sealing work.

Maxi-Flex can be used as a stress absorbing membrane interlayer (SAMI) to help reduce premature cracking in asphalt overlays.

Maxi-Flex is a blended polymer modified bitumen compound incorporating rubber granules, fibre reinforcement, high PSV aggregate, extender and adhesion agent.

Suitable for year round use on both concrete and asphalt surfaces, Maxi-Flex is fast to install and thus minimises traffic disruption. By preventing further deterioration it increases the effective life of the pavement and keeps maintenance costs down.

## Application

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

## Benefits

- **Complies with BBA HAPAS guidelines**
- **Superior load bearing qualities**
- **High resistance to trafficking**
- **For reflective & fatigue cracking**
- **Apply any time of year**
- **Minimal traffic disruption**
- **Extensive use on military & civil airfields**

## Technical Specification

<b>MINIMUM APPLICATION TEMP</b>	3°C
<b>APPLICATION TEMP.</b>	180±10°C
<b>SOFTENING POINT BS2499:1993</b>	MF50 115±10°C MF100 105±10°C
<b>FLOW RESISTANCE BS2499:1993</b>	3mm (max)
<b>EXTENSION TEST@1mm/min @23°C</b>	650N (max) 90% (min)
<b>PENETRATION TEST BS2499:1993</b>	MF50 15±5dmm MF100 20±10dmm
<b>SLUMP TEST (cone) 3hrs@70°C</b>	10% (max)
<b>COMPRESSION RESISTANCE 10mm/min@23°C</b>	300 Newton load (min)
<b>MAX. SAFE HEATING TEMP.</b>	210°C
<b>DENSITY @25°C</b>	1.8 ± 0.05
<b>SKID RESISTANCE</b>	55-70 depending on aggregate dressing

## Installation

### WEATHER CONDITIONS

Installation of the material shall only be carried out at a surface temperature of at least 3°C.

### PREPARATION OF THE SURFACE

Using a mechanical planer mill out the surface to a width determined by the extent of the defective area and a depth of upto 20-40mm. The excavation must be cleaned and dried using hot compressed air and all debris and loose material removed by mechanical sweeper.

If the area to be repaired is concrete it must be primed with Crete-Prime.

Maxi-Flex should only be applied to the repair area when the primed concrete surface is cured (approximately 15 minutes).



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Installation continued...

## SYSTEM INSTALLATION PROCEDURE

Maxi-Flex is heated to  $180\pm 10^{\circ}\text{C}$  and the mixing maintained until the material is fully combined and heated throughout.

The Maxi-Flex is then poured into the repair and screeded to fill the recess and overlap the edges.

While the material is still molten, pre-heated high PSV aggregate is applied to the surface.

Allow the repair to cool (approximately 60-90 minutes) before re-opening the area to traffic.

During the curing period no disturbance or trafficking of the repaired area shall 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

Packaging: 20/25kg multi silicone or poly silicone bags

Storage: 2 years. Store under cover in dry conditions away from direct sunlight.

## 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.

