



# Dantex Maxi-Crete® BR F20 & F40

## Inlaid Crack Repair System for Asphalt & Concrete



### INSTALLATION METHOD STATEMENT

Latest Revision - July 2021

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#### 1. GENERAL DESCRIPTION:

**Maxi-Crete BR F20 and BR F40** is an impervious, impact resistant, highly flexible repair for cracks, failed joints, reflective cracking, transfer joints and cracks, thin bond repairs and most types of defects in asphalt and concrete pavements to any depth and width. It greatly prolongs the surface life of the pavement and enhances ride quality.

#### 2. PRODUCT:

**Maxi-Crete BR F20 and BR F40** is a hot applied, bitumen/resin polymer modified binder system incorporating graded aggregates and other additives. When applied to the road surface, the system is broadcast with a nominal 3mm skid-resistant aggregate. Approved aggregates are granite, basalt and calcined bauxite.

#### 3. SURFACE PREPARATION:

- 3.1 The client engineer or installer shall establish the traffic management system to comply with Chapter 8 of the Traffic Signs Manual.
- 3.2 The area to which the system is to be applied shall be clearly defined by the client prior to commencement of work.
- 3.3 Mechanically plane-out, centrally over the length of the cracks to a depth of up to 100 mm. The width of the recess should be formed to extend at least 25mm into the sound surface. Typically widths of recess can be 200mm – 100mm.
- 3.4 Mechanically sweep the excavated areas and remove all spoil from the site.
- 3.5 Clean and dry the recess using hot compressed air.
- 3.6 Repairs to concrete surfaces must be primed with **Crete Prime**.

#### 4. MIXING & APPLICATION:

- 4.1 Installation should only be carried out by installers approved by Walker Sealants Ltd in accordance with BBA Certificate 20/H298 and this Installation Method Statement.
- 4.2 The ambient and road surface temperature should be recorded at the start and if the weather is variable, during the installation process. **Maxi-Crete BR F20 and BR F40** system can be carried out in damp conditions but only if the road surface temperature is  $\geq 0^{\circ}\text{C}$ . The system must not be used in periods of continuous or heavy rain.
- 4.3 The **Maxi-Crete BR F20 and F40** (Flexible) Inlaid Crack Repair System is satisfactory for use as a Grade F inlaid crack sealing system for repairing cracks, in excess of 20mm wide or multiple adjacent cracks, in non-porous bituminous highway surfaces with texture depths not exceeding 2mm, or concrete highway surfaces.





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#### 5. INSTALLATION PROCEDURE:

**Maxi-Crete BR F20 and BR F40** can be used in two different circumstances. Where areas of reflective cracking are evident and further movement is expected the system should incorporate the **Maxi-Crete BR F20** material as a surface course and **Maxi-Crete BR F40** as a base course and the following methods should be applied:

##### SYSTEM 1 - MAXI-CRETE BR F40 AND FINISH WITH BR F20:

- 5.1 The recess must be clean, dry and free from all loose aggregates, moribund sealants, road salt and any other loose material. It is essential to clean with a gas and air lance.
- 5.2 Melt down the **Maxi-Crete BR F40** compound in a dedicated heated boiler that is agitated by a rotating shaft with paddles at a rate of  $\geq 10$  RPM to a laying temperature of between  $180^{\circ}\text{C}$  and  $210^{\circ}\text{C}$  and must be kept at this temperature for a period of 40 minutes before using.
- 5.3 Pour the **Maxi-Crete BR F40** into the prepared recess and level using a hot tool to finish within approximately 20mm of the adjacent surface.
- 5.4 If the depth of the recess is greater than 40mm the material should be applied in layers, not exceeding 40mm and not less than 20mm.
- 5.5 Melt down the **Maxi-Crete BR 20** in a dedicated heated boiler that is agitated by a rotating shaft with paddles at a rate of  $\geq 10$  rpm to a laying temperature of between  $180^{\circ}\text{C}$  to  $210^{\circ}\text{C}$
- 5.6 Apply the **Maxi-Crete BR F20** to the prepared recess (approximately 20mm deep) by screed box, to finish flush and to overlap by approximately 10mm to the adjacent surface.
- 5.7 Apply the **Maxi-Crete BR F20** material to the **Maxi-Crete BR F40** base material before its temperature falls below  $25^{\circ}\text{C}$ . If the temperature falls below  $25^{\circ}\text{C}$ , the recess and **Maxi-Crete BR F40** surface must be carefully re-heated using a gas and air lance.
- 5.8 Whilst the compound is still in a molten state at  $\geq 75^{\circ}\text{C}$ , apply a covering of 1.5 – 5mm aggregate, pre-heated to  $\geq 100^{\circ}\text{C}$ , to the surface.
- 5.9 When the repair has cooled (30 to 120 minutes) mechanically sweep the work area to remove excess aggregate.
- 5.10 When repairs are being undertaken where no movement, or minor movement is expected, a more general approach should be applied.

##### SYSTEM 2 - MAXI-CRETE BR F20 INLAID CRACK SEALING SYSTEM (INSTALLATION PROCEDURE FOR OTHER REPAIRS):

Manufactures & Suppliers of:  
Joint Sealants  
Bituminous Repair Compounds  
High Friction Surfacing  
Colour Coated Aggregates  
**The Complete Highway Service**

Walker Sealants Limited  
Manufacturing & Sales Division  
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- 5.11 The recess must be clean and dry and free from all loose aggregate, moribund sealants, road salt and any other loose material. It is essential to clean with a gas and air lance.
- 5.12 Melt down the **Maxi-Crete BR F20** down in a dedicated heated boiler that is agitated by a rotating shaft with paddles at a rate of  $\geq 10$ RPM to a laying temperature of between  $180^{\circ}\text{C}$  to  $210^{\circ}\text{C}$ .
- 5.13 Apply the **Maxi-Crete BR F20** to the prepared recess and level using a smoothing iron or screed box to finish flush to the adjacent surface and to overlap by approximately 10mm. Do not apply in layers exceeding 20mm.
- 5.14 Whilst the compound is still in a molten state at  $\geq 75^{\circ}\text{C}$ , apply a covering of 1.5 – 5mm aggregate, preheated to  $\geq 100^{\circ}\text{C}$ , to the surface.
- 5.15 When the repair has cooled (30 to 120 minutes) mechanically sweep the work area to remove excess aggregate.

### 6. SYSTEM INSTALLATION CHECKS:

After the system has been applied the installer should conduct a visual check for uniform surface texture and any other discernible faults and carry out any remedial work as necessary prior to opening the site to traffic.

### 7. SYSTEM SAFE HANDLING PRECAUTIONS:

- \* **Do not exceed the maximum safe heating temperature.**
- \* **Do not allow the hot material to come into contact with water as the product **WILL REACT VIOLENTLY**.**
- \* **Always wear the recommended protective clothing.**

### 8. SAFETY CLOTHING & EQUIPMENT:

The following safety clothing and equipment must be worn **AT ALL TIMES** when handling mixing or applying **Maxi-Crete** materials:

<b>Hand Protection:</b>	Gloves - Industrial type, heat resistant with elasticated sleeves.
<b>Eye Protection:</b>	Safety Glasses, Goggles, Face Shield (when transferring molten Material).
<b>Skin Protection:</b>	High Visibility Jacket, Hard Safety Helmet, Overalls (Flame retardant), Closed Safety Boots.

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This data is provided for your information and your attention is drawn to the appropriate package labelling and the product safety data sheet. Users of the product must ensure its proper use in accordance with good industrial practices, proper medical advice and any official or Government notice or publication. This information is provided gratuitously independent of any sale of the product and does not form part of any contract or sale nor does it constitute any representation, warranty or condition of merchantability or fitness for any purpose.

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