



Dantex Maxi-Crete® BR F20 & F40

Inlaid Crack Repair System for Asphalt & Concrete



MATERIAL DATA SHEET Latest Revision - December 2021

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1. GENERAL DESCRIPTION:

Maxi-Crete BR F20 and BR F40 is a BBA HAPAS approved material that uses a unique blend of resins, polymers, rubbers and bitumen formulated to repair cracks, spalls, holes, failed joints and most types of defects in asphalt and concrete pavements to depths in excess of 20mm.

Maxi-Crete BR is black in colour making it highly suitable for all asphalt pavements but can also be used to repair concrete pavements when suitable coloured high PSV aggregate is used as a final surface coating.

Maxi-Crete BR has been specially designed to extend and compress with the expansion and contraction of pavements therefore there is no need reform joints through the finished repair. **Maxi-Crete BR** is approximately 20% more flexible than the standard **Maxi-Crete F40 and F20** formulation.

Due to the unique design blend, **Maxi-Crete BR** produces an impervious, impact resistant, load bearing, highly flexible repair that, once installed, withstands vehicle traffic, aircraft movement and varying climatic conditions. **Maxi-Crete BR** can accept vehicle and aircraft traffic within 60 minutes of application.

2. BENEFITS:

- Prolongs the life of cracked pavements
- Prevents the ingress of water and de-icing salts
- Enhances ride quality
- Simply heat and apply
- Minimal traffic disruption
- Flexible repair will not crack
- Highly resistant to plastic flow and de-icing chemicals

3. APPLICATION:

- Road and highways
- All airfield pavements
- Industrial hard standings
- Surface car parks
- Asphalt and concrete surfaces

4. INSTALLATION:

Weather Conditions: Installation of the material shall only be carried out on a surface temperature $>-5^{\circ}\text{C}$. Below freezing temperatures warrant extra care with preparation and when applying Dantex Crete Primer to the concrete surfaces.





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5. INSTALLATION PROCEDURE:

- 5.1 A mixer with an agitator must be used.
- 5.2 Place the material carefully in the mixer. The material is heated and melted to the correct working temperature and must be kept mixing at this temperature for a minimum of 40 minutes prior to use. The molten material is then poured into the prepared repair section and levelled. The finished repair is left to cool and solidify prior to opening to traffic.
- 5.3 Prior to use the user must ensure that the Material Safety Data Sheet, BBA HAPAS certificate, Installation Method Statement and the Safe Systems of Work Sheets are read and followed, copies available upon request.

Dantex Crete Primer must be used with all Maxi-Crete BR when used on concrete surfaces.

6. TECHNICAL SPECIFICATIONS:

COLOUR:	Black
FORM:	Blocks and Aggregate
SPECIFIC GRAVITY:	2.2-2.4 (approx.)
SOFTENING POINT:	95°C (min) ASTM D36
FLOW TEST (5HRS @ 60°C):	3mm (max) ASTM D3407/BS EN 13880-5
SLUMP TEST (3HRS @ 70°C):	5% (max) BS3262 Part 1
EXTENSION TEST 1MM PER MIN @ 25°C:	ASTM D5329
NEWTON FORCE:	650 N (max)
EXTENSION:	40% (min)
COMPRESSION RESISTANCE 10mm/min @ 23°C:	5500 Newton Load (min) @ 30% compression
WHEEL TRACKING @ 60°C SPECIMEN DEPTH 40mm:	1.1 mm/hr
Mm/PER HOUR:	3.5mm/hour (max) (BS 598-110:98)
MEAN RUT DEPTH:	2.2mm (max)
DE-ICING FLUIDS:	Resistant
MINIMUM APPLICATION TEMPERATURE:	190°C
MAXIMUM APPLICATION TEMPERATURE:	220°C

7. PACKAGING AND STORAGE:

STORAGE: Store on pallets in a cool dry place out of direct sunlight

PACKAGING: The material is packed in 20kg bags or 8kg blocks.

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

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SHELF LIFE: 2 years – when stored in dry conditions and out of direct sunlight.

8. WARRANTY:

The company warrant that all materials meet stated specifications at the time of shipment. Techniques used for the preparation of the repair prior to use of the material are beyond our 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.

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.
