



# Dantex Iron-Guard®

## Ironwork repairs for asphalt & concrete



### INSTALLATION METHOD STATEMENT

Latest Revision - July 2021

1/3

#### 1. GENERAL DESCRIPTION:

Dantex **Iron-Guard** is a reinstatement system for the single repair of ironwork in asphalt and concrete pavements. It is a permanent, 100% on-site repair.

#### 2. PRODUCT:

**Iron-Guard** is a hot applied, polymer based bituminous grout suitable for use on asphalt and concrete surfaces.

#### 3. SURFACE PREPARATION:

- 3.1 Mark out the area to be excavated around the existing framework of the failed installation.
- 3.2 The client should ensure that the pavement structure is adequate to support the traffic without undue cracking or deformation during the expected life of the system.

#### 4. MIXING & APPLICATION:

- 4.1 Installation should only be carried out by installers approved by Walker Sealants Ltd in accordance with BBA Certificate 14/H223 and this Installation Method Statement.
- 4.2 Installation must not be carried out at a road surface temperatures below 5°C or above 30°C, during heavy rain or where there is running water.
- 4.3 The **Iron-Guard** Ironwork Reinstatement System is satisfactory for use in the reinstatement of ironwork with a cover and frame up to and including Class D400 of BS EN 124 : 1994.

#### 5. INSTALLATION PROCEDURE

- 5.1 Mark out the perimeter of the existing frame of the failed installation and saw cut the perimeter edges of the reinstatement to ensure a clean vertical face.
- 5.2 Break out the existing materials and remove all spoil and existing frame with a suitable lifting device. Remove loose any loose debris with hot compressed air. If re-using the existing frame remove all old bedding material and any debris from the frame in preparation for reinstatement.
- 5.3 Apply a quick setting bedding mortar to the base of the excavation to a maximum thickness of 50mm.
- 5.4 Place a layer of interlocking, mono-polymer bricks onto the mortar ensuring that as much of the mortar is covered with the interlocking bricks as possible.
- 5.5 Reset the new or existing ironwork on top of the bricks with the frame level with the surrounding surface and allow the bedding mortar to cure for a minimum of 15 minutes.
- 5.6 If the material to be repaired is concrete, a primer such as **Crete-Prime** (see separate Method Statement and Material Safety Data





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2/3

Sheet) must be applied to the concrete and allowed to dry for 15 minutes.

- 5.7 Heat the polymer modified mastic grout to a maximum of 175°C in a thermostatically controlled mixer. Avoid any localised overheating of the grout during the melting process. Pour the heated grout into the excavation at lift depths of between 20 and 25mm, ensuring all faces of the excavation are covered.
- 5.8 Lightly bed the cold polymer mastic asphalt blocks into the hot liquid grout with sufficient space between them to allow the grout to flow and fill the voids around each block. For deeper excavations over 150mm use extra layers of bricks, grout and blocks as required.
- 5.9 When all the blocks have been placed, allow to cool for 10 minutes. The cold blocks act as a heat sink and assist cooling.
- 5.10 Fill the excavation with a second application of molten grout and hand float the surface of the grout to ensure the reinstatement is level with the surrounding surface level.
- 5.11 Cold pre-coated chippings, or 2-5mm aggregates, heated to 140°C and with a PSV >60, should be pressed into the grout with a wooden float whilst the material is still warm, plastic state (75°C - 90°C).
- 5.12 Allow the reinstatement to cool to ambient temperature before opening the site to traffic. The curing time will greatly depend on the ambient temperature. Initial cure can occur within approximately 2 hours and full cure may take up to 12 hours.
- 5.13 Once fully cured sweeping or vacuuming can take place.

### 6. SYSTEM INSTALLATION CHECKS:

In all cases the Installer should conduct a visual check for correct application. Any discernible faults at either stage of the installation must be corrected.

### 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.**

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Joint Sealants  
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### 8. SAFETY CLOTHING & EQUIPMENT:

The following safety clothing and equipment must be worn **AT ALL TIMES**:

<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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