



Armourscreed® AS100 BP04

Crack Repairs & Performance Joints



INSTALLATION METHOD STATEMENT Latest Revision - April 2006

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1. GENERAL DESCRIPTION:

Armourscreed AS100 is a stress absorbing inlay crack repair system designed to treat and repair reflective and fatigue cracking in rigid and flexible highway surfaces.

2. PRODUCT:

The **Armourscreed AS100** system is a polymer modified bituminous compound incorporating graded high PSV aggregates, rubber granules, fibre reinforcement, extender and adhesion agents. In service the system exhibits excellent adhesive and compressive properties for improved resistance to wheel track deformation over a wide range of service temperatures.

3. SURFACE PREPARATION:

- 3.1 Remove the existing surface using a mechanical planer set to mill out the required width and depth as determined by the extent of the defective area.
- 3.2 Thoroughly clean the formed recess using HCA equipment to remove all debris and loose material.
- 3.3 Recesses cut into concrete surfaces should be primed with a bitumen primer prior to the application of the **Armourscreed** system. The primer should be spray or brush applied at a rate of 10/20m² per litre depending on the porosity of the concrete surface and allowed to dry prior to the installation process.

4. MIXING & APPLICATION:

- 4.1 The systems are normally applied when the ambient air temperature is above 5°C however the materials are designed for application at temperatures of 0°C and rising providing the surface is dry and free of frost and salt deposits.
- 4.2 The material should be heated in a suitable size preheater fitted with thermostatic controls and horizontally mounted agitator. The application temperature (170 - 190°C) and maximum safe heating temperature (210°C) of the material shall be controlled in accordance with the manufacturers recommendations.
- 4.3 Carefully load the required amount of product into the preheater ensuring that the temperature controls under (4.2) are observed.
- 4.4 Raise the temperature of the material to 170 - 190°C and mix until fully homogeneous. Maintain the application temperature range throughout the mixing and application process.
- 4.5 Apply the material into the prepared recess using a suitably sized screed box to distribute the Armourscreed material evenly along the joint recess. Where the repair forms part of the trafficked surface a preheated high PSV aggregate dressing* is broadcast across the surface whilst the material is still molten and the area compacted level to the adjacent surfacing.

***Note - Road Grade Calcined Bauxite (1 - 3mm) is recommended.**



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- 4.6 The installed system should be allowed to cool to ambient temperature and the excess aggregate (where applicable) removed before re-opening the site to traffic.

5. SAFE HANDLING PRECAUTIONS:

- 5.1 A visual check should be carried out to determine the uniform surface texture, blemishes and any discernible fault and that the repaired area is level with the adjacent road surfacing.
- 5.2 A check shall be made on completion of each site to determine the quantities of materials used.

6. 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.**

7. SAFETY CLOTHING & EQUIPMENT:

The following safety clothing and equipment must be worn **AT ALL TIMES** when handling, mixing or applying Armourscreed AS100 materials:

Hand Protection: Gloves - Industrial type, heat resistant with elasticated sleeves.

Eye Protection: Safety Glasses, Goggles, Face Shield (When Transferring Molten Material).

Skin Protection: Overalls (Flame retardant) and Closed Safety Boots.

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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