



Method Statement

STARPROOF HR 900

(Acrylic Heat Reflective Waterproof Coating)

Rev.: A, Date: 25.06.2025

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Section A: General Considerations

Tools & Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement.

Equipment Type	Equipment Description
Protective clothing	<ul style="list-style-type: none"> ▪ Protective overalls ▪ Good quality gloves, goggles and face mask
Mixing equipment	<ul style="list-style-type: none"> ▪ Any manual method
Surface Preparation Equipment	<ul style="list-style-type: none"> ▪ Wire Brush ▪ Proprietary blasting equipment
Application Equipment	<ul style="list-style-type: none"> ▪ Masking Tape ▪ Brush, Roller, Spraying Equipment

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

1. Store the packed materials in a cool environment, avoiding exposure to direct sunlight.
2. Keep equipment cool, it is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
3. Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
4. Make sufficient material, plant and labour available to ensure that application is a continuous process.

Application - points of note

STAR operates a policy to encourage the use, where possible, of approved or licensed applicators. This ensures that applications are completed satisfactorily so that the long term performance of the materials is assured.

For contractors who wish to apply the materials themselves STAR is also able to offer technical assistance and training.

STAR offers technical assistance either on-site or at its Training Centre in the Kingdom of Saudi Arabia.

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Section B: Application Instructions

1. Surface Preparation

- 1.1 Surfaces to be coated should be clean, solid, free from loose materials, oil grease, paints and free from contamination such as oil, grease, loose particles, decayed matter, moss algal growth, laitance, and all traces of mold, release oils and curing compounds. This is best achieved by lightly grit-blasting the surface.
- 1.2 Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process.
- 1.3 Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with a appropriate concrete repair system.
- 1.4 Concrete substrates should be at least 14 days old, bituminous substrates should be 3 to 6 months old prior to over coating with STARPROOF HR 900.

2. Mixing

- 2.1 STARPROOF HR 900 needs to be mixed thoroughly mixed before application
- 2.2 Dilution with water should not be done for coating

3. Application

- 3.1 STARPROOF HR 900 can be applied by brush, roll, or airless spray machine.
- 3.2 Porous surfaces should primed with STARPROOF HR 900 primer with dilution 1:3 ratio and allowed to dry before applying the first coat.
- 3.3 The first coat of STARPROOF HR 900 should be applied at the rate of 0.7-1.0kg/m²/coat and allowed to cure for 4 - 12 hours depending on ambient temperature.
- 3.4. The second coat should be applied perpendicular to the first coat at the same rate above, and allowed to cure.
- 3.5. For heavy pedestrian traffic, it is recommended to use fiberglass scrim reinforcement, embedded firmly in the second coat while wet, and a third coat should be applied.

4. Cleaning

- 1.1 STARPROOF HR 900 product should be removed from tools, equipment and mixers with clean water prior to the initial set. Cured material can only be removed mechanically.



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Section C: Approval and Variations

This method statement is offered by STAR Technologies as a 'standard proposal' for the application of STARPROOF HR 900. It remains the responsibility of the Engineer to determine the correct method for any given application.

Where alternative methods are to be used, these must be submitted to STAR Technologies for approval, in writing, prior to commencement of any work. STAR Technologies will not accept responsibility or liability for variations to the above method statement under any other condition