



SOLACOAT
TAKES THE HEAT OUT OF THE ENVIRONMENT
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Technical Data Sheet for: SOLACOAT HEAT REFLECTIVE NON-SLIP WATERPROOF CONCRETE PAVEMENT COATING: 2020

Description

Solacoat's Heat Reflective and Non-slip Waterproof Concrete Pavement/Roof Coating, is a new technology, water-based coating specifically designed to give a Hard Wearing, Non-Slip & Waterproof surface, with minimal heat absorption for pedestrian walk areas. It is a Two-coat application for poured concrete surfaces with ivory Portland cement added by the applicator. There is the option of an additional clear sealer, which can be used in light vehicle traffic areas and parking lots made of concrete surface. The product can be supplied in any of our current colours. If your surface is Asphalt or Timber, then you need to use our Solacoat BT Primer & Topcoat.

The Solacoat Heat Reflective & Non-Slip & Waterproof Concrete Pavement/Roof Coating system is ready mixed. But to achieve water-proofing, & coating life, you need to add 10% weight/ volume (i.e. 1½ kg ivory Portland cement per 15 litre pail) for pedestrian traffic and light, low speed vehicle traffic and, where necessary, a Solacoat Pavement Sealer. For high usage, heavy vehicles at low speed the quantity of ivory off white Portland cement is increased to 15% weight/volume i.e. 2.25 kg per 15-litre pail. Note: No Primer is required to such Concrete or Brick surfaces.

The coating system of Solacoat Pavement Coating mixed with ivory off-white Portland cement MUST be applied in order to achieve the coating life and temperature reduction benefits. Ordinary grey Portland cement will alter the colour and will NOT give the envisaged heat temperature reductions.

Features

- Excellent adhesion to correctly prepared substrates
- No Primer required
- One pack convenience. Customer to supply own Ivory off-white cement Portland Cement
- Rapid drying
- Water based coating system – environmentally friendly
- Excellent non slip characteristics in either wet or dry conditions
- May be used indoors or outdoors.
- Solacoat Heat Reflective & Non-Slip & Waterproof Concrete Pavement/Roof Coating is available in any of our current colour finishes
- Low heat absorption characteristics therefore lower surrounding temperature environments
- The coating can be applied to any Cement, Cement Roofing, Tiled, Brick Pavers, and/or Cement Pathways
- The coating is also an excellent alternative for water-proofing cement roofs.
- If applying to Asphalt, and/or Timber surfaces, we recommend using our Solacoat BT Primer & our Solacoat BT Heat Reflective, Water-Proof Pavement Coating.





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Surface Preparation

Surfaces must be clean, dry and free of all contamination. Glazed terrazzo, glazed ceramic tiles etc must be sand blasted or rotary disc treated to remove all traces of glazing. Previously coated, smooth or polished concrete must be either sand-blasted, rotary disc ground or thoroughly acid etched in order to provide an acceptable base to permit adhesion for the coating system. Concrete paving blocks may also be coated to provide the essence of the properties of this coating system but allowances must be made for the paving joints. The coated areas must not be subject to hydrostatic pressure nor lie in situations where frequent or constant water immersion occurs.

Mixing Instructions

Stir thoroughly until uniform in colour and consistency. Add ivory off white Portland cement at the rate of 1½ kg per 15 litres of Solacoat Heat Reflective & Non-Slip & Waterproof Concrete Pavement Coating for cement roofing, pedestrian or light vehicle traffic areas or 2.25 kg ivory off white Portland cement for heavy traffic areas. Mix, preferably with a power mixer until cement is fully incorporated. Mixed product has a working time of around 40 minutes to 1 hour. Only mix sufficient product of what can be used within this time. Do NOT use ordinary Portland (grey) cement.

Application

Pedestrian areas & Cement Roofing

To a clean, dry prepared surface apply one (2) coats of Solacoat Pavement Coatings mixed with ivory off-white Portland cement added at a rate of 1½ kg per 15 litres of Solacoat Heat Reflective & Non-Slip & Waterproof Concrete Pavement Coating by hopper spray gun having a 4 or 6mm nozzle or medium textured roller. A continuous coating must be applied in a consistent manner at a spreading rate of 2½ - 3m^2 per litre. The coated area may be trowelled off, broom finished etc by a second person working in tandem with the applicator.

Heavy vehicle areas

To a clean, dry prepared surface apply one (2) coats of Solacoat Pavement Coatings mixed with ivory off-white Portland cement added at a rate of 2.25 kg per 15 litres of Solacoat Heat Reflective & Non-Slip & Waterproof Concrete Pavement Coating by hopper spray gun having a 4 or 6mm nozzle or medium textured roller. A continuous coating must be applied in a consistent manner at a spreading rate of 1m^2 per litre. The coated area may be trowelled off, broom finished etc by a second person working in tandem with the applicator.

Solacoat Clear Sealer for Solacoat Pavement coatings must be applied to assist in spoilage removal for black heel marking, tyre marking and potential oil droppings. Regular cleaning of affected areas may be required so as to maintain maximum heat minimisation benefits.

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Paver blocks/ cobblestone areas

Where these substrate materials are used and the gaps between has been filled with dry sand, sand mixed with a low quantity of cement or low strength concrete then the complete area needs to have a Solacoat bonding sealer applied prior to application, such as our Solacoat CP Primer.

NOTE: None of these coatings will upgrade a low performance substrate to a highperformance surface suitable for traffic/usage conditions more than what the original substrate was designed for. The substrate and foundation bases must be capable in design and condition to support the perceived traffic usage requirements.

NOTE: Do not apply coatings to hot surfaces. Surfaces above 40°C (or where the back of one's hand cannot be rested comfortably on the surfaces for at least 20 seconds) are too hot for coating. Cracking or other coating problems may arise if application is made to hot surfaces or where excessive windy conditions during application and drying occur.