

TIO-COAT/RubberROCK

Waterproof Reflective Roof System

For Existing Asphalt Built Up Roofs (BUR)

PART 1 – GENERAL

1. PRODUCT DESCRIPTION

- 1.1. TIO-COAT is a white, elastomeric, protective, reflective roof coating.
- 1.2. RubberROCK is a water-based, elastomer-modified, bitumen emulsion, waterproof roof coating.

2. SUBSTRATE REQUIREMENTS

- 2.1. Substrate shall be asphalt built up roof that is structurally sound and supported, continuous, flat and plumb.
- 2.2. Substrate shall be clean, dry, free of cracks or loose material, free of degradation, and free of any deleterious material such as debris, oil, grease, efflorescence, paint, mildew, chalk, dust and dirt which could negatively affect bonding.
- 2.3. Substrate shall be BUR membrane in good and working condition.

3. PERFORMANCE REQUIREMENTS

- 3.1. Top coat shall have a Solar Reflectance Index (SRI) equal to or greater than 78.
- 3.2. Top coat shall be an Energy Star qualified product.

4. QUALITY ASSURANCE

- 4.1. Coating shall be installed by a competent, knowledgeable, experienced contractor in accordance with these specifications.

5. DELIVERY, STORAGE & HANDLING

- 5.1. All materials shall be delivered to the jobsite in the original, unopened packaging with labels clearly identifying the product.
- 5.2. All materials shall be inspected upon delivery. Any defective or frozen materials shall not be used.
- 5.3. All materials shall be stored off the ground, and protected from precipitation and direct sunlight.
- 5.4. All materials shall be delivered and stored at temperatures above 4°C (40°F) and below 40°C (104°F).

6. SITE CONDITIONS

- 6.1. All drains, openings, curbs, flashings, etc. shall be in accordance with code and manufacturer requirements.
- 6.2. Surface and ambient conditions for application of materials shall be above 7°C (45°F) and shall remain so for a minimum of 24 hours and until all work has dried. Drying may require more than 24 hours under humid conditions or at low temperatures.
- 6.3. Materials shall not be applied in direct sunlight at temperatures exceeding 30°C (86°F), or when the substrate temperature exceeds 40°C (104°F).
- 6.4. All work shall be protected from rain, snow, hail, and wind exceeding 25 km/hr (15 mph) until it has dried.

7. WARRANTY

- 7.1. TIO-COAT is eligible for a limited manufacturer's warranty starting from the date of substantial completion. A formal warranty request shall be submitted to DuROCK upon completion of the work.
- 7.2. DuROCK's warranty is effective only when materials are paid for in full, and the workmanship complies with this specification. Substitution of materials shall void the manufacturer's warranty.
- 7.3. DuROCK's warranty does not apply to any materials other than those listed in this specification. It is the user's responsibility to confirm that other warranties remain unaffected by the work identified in this specification.

PART 2 – MATERIALS

1. GENERAL

1. All materials shall be supplied by DuROCK Alfacing International Limited, or its appointed distributors.

2. MATERIALS

- 2.1. RubberROCK dual component coating shall be spray-applied using an airless sprayer.
- 2.2. TioCOAT shall be mixed to a uniform consistency by a medium duty power-drill (400 – 500 RPM) with stainless steel or corrosion-resistant paddle-mixing-blades prior to application. Water and other additives shall not be used. Discard any material that has become stiff or hard.

PART 3 – EXECUTION

1. GENERAL

- 1.1. Deficiencies in the substrate shall be rectified prior to commencing the work of this section.
- 1.2. The work of this section shall be co-coordinated with the work of other related sections.
- 1.3. The work of other sections shall be protected to ensure the work of this section does not stain or otherwise damage them.
- 1.4. Cap flashing should be removed prior to commencing work.

2. RUBBERROCK

- 2.1. All loose gravel shall be removed.
- 2.2. A continuous, uniform coat of RubberROCK shall be applied at a minimum wet thickness of 2.0 mm (80 mils).
- 2.3. All remaining gravel shall be completely encapsulated in RubberROCK.
- 2.4. RubberROCK surface shall be allowed to cure for 72 hours prior to the application of Tiocoat.
- 2.5. RubberROCK surface shall be washed with water and allowed to dry prior to application of TioCoat.

3. TIOCOAT

- 3.1. TioCOAT coat shall be applied in two coats using high pile roller or spray equipment.
- 3.2. A continuous, uniform coat shall be applied to the substrate at a minimum wet thickness of 0.50 mm (20 mils). The first coat shall be allowed to dry for 6 to 8 hours before application of the second coat.
- 3.3. A second continuous, uniform coat shall be applied at a minimum wet thickness of 0.50 mm (20 mils) perpendicular to the first coat, and allowed to dry for 6 to 8 hours.
- 3.4. Cap flashing that had been removed shall be replaced.
- 3.5. Leftover materials and debris shall be removed from the jobsite.

End of Specification

<i>This is a guide specification only. DuROCK Alfacing International Limited assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. The information contained herein is provided in good faith and subject to change. Go to www.DuROCK.com for the most up-to-date version.</i>
