TIOCOAT

# TRS-A (with polyester membrane) TIOCOAT Roofing System over asphalt

## DESCRIPTION

The TIOCOAT roof system (TRS-A) is an elastomeric coating system specified as a reflective coating system over asphaltic membranes for energy savings, maintenance coatings, or as a colour coating for architectural or aesthetic purposes. TIOCOAT is a water-based finish that resists abrasion, biological growth, dirt and extreme weather conditions. Its tough white finish is VOC compliant and exceeds all regulatory requirements. TRS-A creates a uniform, seamless surface that remains flexible even at low temperatures, resulting in an extended roof cycle and provides a monolithic roof covering with superior durability, and protects against UV and weathering degradation.

## SYSTEM COMPONENTS

The TRS-A components include:
Asphalt Primer (AS-Primer)
TIOCOAT ( 1st coat)
Reinforced fibre mesh (RR-Mesh)
TIOCOAT (2nd coat)

## APPLICATION EQUIPMENT

AS-Primer and TIOCOAT can be applied by brush, roller, or spray. Airless spray is the most efficient method of application where proper conditions and expertise exist. Spray equipment should be capable of 2500 – 3000 psi with an output of 2 - 2.5 gallons per minute. Tip size .027 to .041. Rollers should be medium or long nap. (3/4" recommended).

## INSTALLATION

1. Preparation of asphalt substrate
Durock TRS-A must have a clean surface to adhere to. Proper surface preparation is the key to successful applications. All dirt, debris, oils etc. must be removed by the most effective method possible. High-pressure water (2000 psi minimum) is the preferred method. Vacuuming, stiff brooming and low-pressure water washing can also be used. When high-pressure water washing is used it should be done at a pressure suitable to remove embedded dirt and contaminants without damaging the substrate that is being cleaned, and care must also be taken to make sure that water does not intrude into the building or the existing roofing system. Priming is not a substitute for proper cleaning. Roofs that have been previously coated with aluminized asphalt coatings must be prepared vigorously to insure a stable surface for coatings to adhere to. Priming with AS primer is necessary.

A tape test should be used to determine acceptability of cleaned surface for coating application. This is done by applying masking tape to the surface to be coated, and then peeling off the tape. If the adhesive side of the tape shows contaminants that will interfere with the adhesion of the coatings, then further cleaning is necessary.

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2. Repairs
Durock TRS-A should not be applied over roofing, insulation, or related materials that are saturated with moisture. All necessary repairs must be done according to good construction practices.

3. Application of TIOCOAT AS-Primer
Before application of coatings verify that the surface to be coated is cleaned and prepared properly. At any time during application of the TRS-A if the roof surface becomes contaminated with dirt, dust or other materials that will interfere with adhesion of the coatings, then cleaning measures must be taken to restore the surface to a suitable condition. Dust must be blown off of surfaces to be coated with compressed air or blowers before application of coatings. All required materials must be applied and minimum dry film thickness achieved. Apply AS-Primer in a uniform manner at a wet mil thickness of 15-17. Coverage is approximately 250 sq.ft. per gallon. Allow to dry a minimum of 6 to 8 hours before applying TIOCOAT (2nd coat).

4. Application of TIOCOAT & Mesh
Apply TIOCOAT (1st coat) in a uniform manner at minimum application rate of 1 gallon per 80sq.ft. TIOCOAT white is the recommended finish colour for energy efficiency and reducing thermal stress on the roof. A variety of colours are available upon request. During the application of the 1st coat, embed the fibre mesh into the TIOCOAT and ensure that the application is smooth and consistent (@ 20mil wet). Allow between 6 to 8 hours of drying time before applying the 2nd layer of TIOCOAT. Apply 2nd coat at a rate of 1 gallon per 90-100 sq.ft. and allow an additional 6 -8 hours of drying time.

5. Inspection
Inspect entire roof area and touch-up deficient areas with additional TIOCOAT coat as necessary to ensure complete and uniform coverage.

LIMITATIONS

These are general guidelines for the application of the TIOCOAT Roofing System over Asphalt. The material requirements may vary depending on the specific job requirements. If unusual conditions exist, please contact DuROCK technical Services toll free at 1(888)238-6345. DuROCK TRS-A must be applied to structurally sound substrates and properly prepared surfaces. All surfaces must be clean and dry before application of coatings. The suitability of DuROCK coatings or systems for an intended use shall be solely up to the user. Drying time and coverage are not guaranteed. DuROCK TRS-A must not be applied over wet insulation or related materials. Failure of the substrate does not constitute failure of the TRS-A. DuROCK systems are designed for use on well drained roofs.

WARRANTY

DuROCK Alfacing International Limited offers a limited material warranty for the TRS-A when all materials are used in strict accordance with all of DuROCK written requirements and recommendations and required dry film thicknesses are achieved.
DuROCK's sole responsibility under this limited material warranty is for defective material. DuROCK's obligation shall not exceed the purchase price of the TRS-A materials used or part thereof proven to be defective. Submittal of required documentation is required for warranty. Consult DuROCK for details. This warranty gives specific legal rights and you may have other legal rights that vary from province to province. No statement by anyone may supersede this limited material warranty.

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NOTES:

1. TRS-A coatings are waterborne, consequently application of these materials must not be done when rain or other conditions such as fog or heavy dew are possible before coating can dry sufficiently to be resistant to these occurrences. Drying time is affected by numerous factors including temperature, direct sunlight, relative humidity, air movement, thickness and color of applied coating, etc... Under proper conditions dry times for coatings will range from 6 to 8 hours, but under adverse conditions dry times can take up to 12 hours or more. Application must NOT be done when temperatures are below 7 degrees Celsius.

2. Surfaces must always be clean before application of TRS-A. Care must be taken to ensure that on-site manufacturing emissions or extended time intervals after original cleaning do not interfere with any stage of the coating application. If either condition occurs then cleaning may be required again.

3. Adequate coating thickness is essential to performance. If the applicator is unfamiliar in gauging application rates, we suggest that a controllable area be measured and the specified material be applied. In all cases all minimum specified material must be applied and proper minimum dry film thicknesses must be achieved. Care must be taken to ensure that all areas, including flashed areas, roof penetrations etc.., are coated sufficiently.

4. Consult DuROCK if any deviations from published specifications are considered. Unapproved deviations from application guidelines and specified material requirements may seriously affect the coating system performance, and shall be undertaken at the Specifiers, Applicators or Building Owners own risk.

5. Roofing is hazardous work and coatings are very slippery when wet. Comply with fall protection rules and regulations.

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