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TERRA-SHIELD® WC 100

Single Component, High Solids, Water Curable, Bitumen Modified, Liquid for Plywood and Concrete Surfaces

DESCRIPTION

Terra-Shield® WC 100 is single component, high solids, water curable liquid applied, bitumen modified, coal tar free, urethane polyurea waterproofing membrane for vertical and horizontal surfaces. The system is fully adhered and reinforced and may be applied at any field thickness from 30 to 2500 mils or more in one application while supplying simultaneous curing throughout the coating.

FEATURES

- ❖ Economical
- ❖ User Friendly
- ❖ Resistant to Bacterial Growth
- ❖ Labor Saving
- ❖ SCAQMD Grade
- ❖ User Friendly
- ❖ Meets the Criteria of ASTM C-836 & E-96
- ❖ Non-Gassing
- ❖ Fast Recoat Times
- ❖ Fast Curing
- ❖ No Heating or Kettles
- ❖ Applied at any required thickness
- ❖ Able to supply slope to drain
- ❖ Change of slope of deck from negative to positive
- ❖ Fills ponds and low areas in one application
- ❖ Highly Flexible over extreme temperatures
- ❖ Low Odor
- ❖ Meets SCAQMD VOC Requirements

TYPICAL USES

- ❖ Tunnels
- ❖ Basements
- ❖ Planters
- ❖ Foundation Walls
- ❖ Between Slabs
- ❖ Bathrooms
- ❖ Terrazzo and Tile Floors
- ❖ Showers, Laundry, Kitchen Floors
- ❖ Under Malls, Plazas and Promenade Decks
- ❖ Green Roof Waterproofing
- ❖ Balcony & Breezeway waterproofing
- ❖ Roofing

TECHNICAL DATA

Hardness, ASTM D-2240	35 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	160 ± 10 pli
Tensile Strength, ASTM D-412	500 ± 100 psi
Ultimate Elongation, ASTM D-412	500 ± 100%
Specific Gravity	1.11
Total Solids by Weight, ASTM D-2369	92 ± 2%
Total Solids by Volume, ASTM D-2697	90 ± 2%
Viscosity, at 80 F (27 C)	5000 ± 2000 cps
Volatile Organic Compounds, ASTM D-2369-81	<.075 lb/gal <90 gm/liter

- ❖ Modified Cap Sheet
- ❖ Polyurethane Foam
- ❖ Acrylic Latex Roofing
- ❖ Asphalt Emulsion Coatings
- ❖ EPDM
- ❖ Over Conventional Hot Asphalt Roofing
- ❖ Simultaneous continuous curing throughout the coating in any thickness
- ❖ Closed cellular non-gassing tack free film
- ❖ Easily broadcasted with roof granules for a wide range of colors and patterns. TerraShield® WC 100 is made to be able to supply slope to drain and fill ponds on plywood, concrete, metal, urethane foam and other roofing systems.

COLOR

Black

PACKAGING

5 gallon (18.9 liter) pail
 55 gallon drum, net fill 50 gallons (189 liters)

MIXING

One quart of water should be added to 5 gallons of TerraShield® WC and should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material.

JOINTS, CRACKS, AND FLASHING

Apply Terrashield® WC over all primed joints and cracks. Bridge the joints and cracks with 3 inch (7.6 cm) Polyester Tape, pushing it into the sealant with a trowel. Over reinforcement tape apply a thin coat of Terrashield® WC and smooth onto adjacent surface.

APPLICATION

Terrashield® WC may be applied directly with a brush, squeegee, trowel, or phenolic core roller. Apply Terrshield® WC evenly over the primed surface. A 30 mil construction coat may be applied for temporary waterproofing in horizontal surfaces until the finish system is applied. However, due to the probability of damage more coating may be needed to create a smooth finish. Attention to proper slope to drain is essential for proper waterproofing.

Primer is optional on plywood and CMU.

CURING

For multiple coat applications, allow coating to cure for a minimum of 1 and a maximum of 48 hours (curing is a function of ambient temperature and humidity) before proceeding to subsequent coats. If more than 48 hours pass between coats the surface must be re-primed.

Terra-Shield® WC is very sensitive to heat and moisture. Higher temperatures and/or high humidity

will accelerate the cure time. Use caution in thickness of application.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

Terra-Shield® WC has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Surfaces must be dry, clean and free of foreign matter.

Not UV stable.

Cannot withstand continuous direct wear or abrasion.

Containers that have been opened must be used as soon as possible.

Do not dilute with solvent under any circumstance.

WARNING

This product contains Aromatic Hydrocarbons and Isocyanates.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.