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TERRA-SHIELD® BG-100

*Two Component, Solvent Free
 Bitumen Modified
 Waterproofing Membrane*

DESCRIPTION

Terra-Shield® BG-100 is a two component, solvent free, high solids, low odor, liquid applied, bitumen modified, coal tar free, polyurethane waterproofing membrane.

FEATURES

- ❖Fast Curing
- ❖User Friendly
- ❖Apply At Any Thickness
- ❖Labor Saving
- ❖Solvent Free
- ❖Low Odor

TYPICAL USES

- ❖Planters
- ❖Tunnels
- ❖Between Slabs
- ❖Foundation Walls

PACKAGING

10 gallon kit: One 5 gallon (18.9 liter) pail of Part-A Black Liquid. One 5 gallon (18.9 liter) pail of Part-B Red Liquid

100 gallon kit: One 55 gallon drum ,net fill 50 gallons (189 liters) of Part-A Black Liquid. One 55 gallon drum, net fill 50 gallons (189 liters) of Part-B Red Liquid.

MIXING

The volume mixing ratio is 1 part Part-A Black Liquid to 1 part Part-B Red Liquid.

Terra-Shield® BG-100 Part-A and Part-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. Add the Terra-Shield® BG-100 Part-B to the Terra-Shield® BG-100 Part-A and thoroughly mix using a mechanical mixer at slow speed or at least 5 minutes, if mixed by hand.

Use care not to allow the entrapment of air into the mixture. Mix no more material than can be used within 20 minutes.

TECHNICAL DATA, Terra-Shield® BG-100 Vertical

| | |
|--------------------------------------|-----------------|
| Potlife @ 75°F | 30 minutes |
| Hardness, ASTM D-2240, | |
| With Fabric | 48 ± 5 Shore A |
| Without Fabric | 13 ± 2 Shore A |
| Tear Resistance, Die C, ASTM D-624, | |
| With Fabric | 150 ± 15 pli |
| | 26.29 ± 2.6 kNm |
| Without Fabric | 51 ± 5 pli |
| | 8.94 ± 0.8 kNm |
| Tensile Strength, ASTM D-412, | |
| With Fabric | 210 ± 20 psi |
| | 1.45 ± 0.1 MPa |
| Without Fabric | 175 ± 18 psi |
| | 1.21 ± 0.1 MPa |
| Ultimate Elongation, ASTM D-412, | |
| With Fabric | 60 ± 6% |
| Without Fabric | 410 ± 40% |
| Specific Gravity, | |
| Part-A | 1.02 |
| Part-B | 1.01 |
| Total Solids by Weight, ASTM D-2369, | |
| Combined | 91% |
| Total Solids by Volume, ASTM D-2697, | |
| Combined | 89.8% |
| Viscosity at 75°F (24°C), | |
| Part-A | 800 ± 200 cps |
| Part-B | 1100 ± 200 cps |
| Volatile Organic Compounds, | |
| ASTM D-2369-81, Combined | < 0.83 lbs/gal |
| | < 100 gm/liter |

TECHNICAL DATA, Terra-Shield® BG-100 Horizontal

| | |
|--------------------------------------|----------------|
| Potlife @ 75°F | 30 minutes |
| Hardness, ASTM D-2240, | |
| With Fabric | 63 ± 5 Shore A |
| Without Fabric | 12 ± 2 Shore A |
| Tear Resistance, Die C, ASTM D-624, | |
| With Fabric | 160 ± 20 pli |
| | 28.04 ± 3 kNm |
| Without Fabric | 16.4 ± 3 pli |
| | 11.39 ± 1 kNm |
| Tensile Strength, ASTM D-412, | |
| With Fabric | 214 ± 20 psi |
| | 1.48 ± 0.2 MPa |
| Without Fabric | 116 ± 10 psi |
| | 2.24 ± 0.2 MPa |
| Ultimate Elongation, ASTM D-412, | |
| With Fabric | 54 ± 10% |
| Without Fabric | 430 ± 40% |
| Specific Gravity, | |
| Part-A | 1.02 |
| Part-B | 1.01 |
| Total Solids by Weight, ASTM D-2369, | |
| Combined | 91% |
| Total Solids by Volume, ASTM D-2697, | |
| Combined | 89.8% |
| Viscosity at 75°F (24°C), | |
| Part-A | 800 ± 200 cps |
| Part-B | 1100 ± 200 cps |
| Volatile Organic Compounds, | |
| ASTM D-2369-81, Combined | < 0.83 lbs/gal |
| | < 100 gm/liter |

JOINTS, CRACKS, AND FLASHING

Apply Terra-Shield® BG-100 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 Terra-Shield® BG-100 and smooth onto adjacent surface.

APPLICATION

For best results use a brush, squeegee or trowel. Airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

Primer is optional on new plywood.

Apply Terra-Shield® BG-100 evenly over the primed surface at 64 mil thickness (100 microns) which correspond to 4 gallons/100 sq. ft. Allow coating to cure a minimum of 2-4 hours before proceeding to subsequent coats.

CURING

Allow coating to cure a minimum of 1-2 hours before proceeding to subsequent coats.

Subsequent coats may be applied immediately after the Terra-Shield® BG-100 cure and support the weight. Do not allow more than six hours between coats.

EQUIPMENT CLEANUP

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

STORAGE

Terra-Shield® BG-100 has a shelf life of one (1) year 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 direct wear or abrasion.

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

Do not dilute under any circumstance.

WARNING

This product contains 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.

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