

Below Grade Waterproofing

For Professional Use Only

DESCRIPTION

- A high quality, plasticizer-free, 100% acrylic modified, cementitious coating for trowel application.
- Designed to provide a waterproofing layer to below-grade masonry surfaces including foundations and basements.
- Formulated to provide quick cure and exceptional adhesion.
- Ponded water resistant.
- Has the unique ability to “breathe,” providing a completely watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES

When properly installed, The FortiShield BGWP system will provide a flexible waterproof layer to any masonry surface.

Properties (Installed FortiShield System)

Property	Test Method	Result
Weight Solids (Final Mix)	ASTM D-1644	100%
UV Resistance (2000 hrs)	ASTM D-822	No Effect
Density		8.8 lbs/gal
VOC	EPA Method 24	0 g Liter
High Temperature Stability	ASTM C-794	No Effect
Shelf Life (When stored between 40°F and 70°F (4°C - 21°C).		24 months (Unopened)
Clean Up		Water

COLORS

Standard Colors: Clear

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE

5-gallon bucket

SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating, and other foreign matter

For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. Mildew should be treated with a bleach solution (1 part bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.

FORTISHIELD BGWP

Below Grade Waterproofing



Directions (makes a 4-gallon slurry)

1. Ensure the surface is properly cleaned. In most cases stiff broom to remove any existing dirt. Power washing is not advised, if more cleaning is needed. Water and stiff broom to clean harder to clean areas. Wall saturation with water is to be avoided in the cleaning process.
2. In hot weather, slightly "mist" the surface to cool/moisten the surface, again do not saturate wall.
3. To a clean bucket, add one gallon (1 part) of FortiShield BGWP and one gallon (1 part) of clean water.
4. Mix until completely homogeneous, typically 2 minutes is sufficient.
5. With good mixing add 3 gal (one gal at the time) of Portland type I/II cement. Note: 94lb bag makes 3 mixes – make sure bag has not absorbed water and solidified, before use. Mix contents for approximately 3 min.
6. In hot weather, keep the **mixture cool**. Add ice to the **WATER only**. DO NOT add ice to the mixed liquid. IE. Freeze 1 gal containers, which can be placed in water or the 100% resin to **keep cool**.
7. Avoid using water directly from a water hose in hot weather.
8. Apply initial coat of slurry mix to wall area wider than the 40" fabric, applying the fabric "wallpaper" style or vertically applied.
9. Immediately embed fabric into the wet slurry overlapping fabric by 4 inches and brushing out creases and voids until smooth.
10. Repeat the above process until the wall surface is completed.
11. After the above is dry to touch apply a third coat of slurry to wall surface to complete the full application process.
12. Coverage rate for FortiShield system to include, Slurry/fabric/Slurry, and above 3rd slurry topcoat = +/- 70 sq ft in total. To determine number of kits needed Divide your square footage to waterproof by. (application rate will vary based on texture of substrate)
13. The slurry mix can be used to fill holes/damaged concrete by adding play sand to "bulk up" the mixture, prior to the slurry/fabric/slurry application.
14. *Do not "back fill" below grade walls for 5 days after completion of system above has been completed.

Application Properties

Yield (1 gal to 100 sq ft)	16 dry mils
Dry Time (75° F)	Approximately 2 hrs
Recoat window	unlimited
Complete Cure	6 days

ENVIRONMENTAL CONDITIONS

This product cures by hydration only. Product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before product dries. In high humidity conditions late afternoon applications should be avoided as overnight dew formation on uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper curing before rain or overnight freezes.

LIMITATIONS

Surface must be clean. Do not apply when inclement weather is imminent. Full cure of FortiShield requires complete hydration. Cool temperatures retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources are available at www.forti-systems.com or by contacting your FortiSystems representative directly.