SHIELDIT™ BASE COATS

A 2-Pass Base Coat Which Improves Impact Resistance and Provides Protection from Woodpecker Damage for EIFS Substrates

DSC877

Description
Dryvit's ShieldIt Base Coats are acrylic polymer-modified products, which are mixed in a proprietary ratio to produce the two composite base coats for: Dryvit's ShieldIt warranty program, warding off woodpeckers; and improving point-impact resistance, such as on pedestrian wall areas, and decorative EIFS trim.

The components are as follows:

ShieldIt 1st Coat (Dark Grey): mix with Type I or Type II (Type 10 or Type 20) Portland Cement. This coat could be referred to as the "scratch" or "screed" coat.

ShieldIt 2nd Coat (Light Grey): mix with Type I or Type II (Type 10 or Type 20) Portland Cement. This coat could be referred to as the "level" or final "skim" coat.

Each product provides a medium-build, base coat over top of existing EIFS lamina, or reinforced base coat.

Uses
The ShieldIt Base Coats are used over existing EIFS and new EIFS base coats to provide a layer of protection against damage from woodpeckers and similar pests. The combination of the two ShieldIt Base Coat layers changes the surface characteristics to deter fowl from pecking their way through an EIFS lamina.

Note: ShieldIt is not recommended to have reinforcing mesh embedded into it – the coarse texture of the product is intended to be applied onto existing EIFS lamina, or newly applied Dryvit reinforced base coat.

Coverage
ShieldIt 1st and 2nd Coats are supplied in 27.2 kg (60 lb) pails. Each pail is mixed, split into two equal halves, which are each mixed with 9.7 kg (21.4 lbs) of Type I or Type II (Type 10 or Type 20) Portland Cement, yielding approximately:

ShieldIt 1st Coat (Dark Grey): 11.0-12.0 m^2 (120-130 ft^2) of surface area per 60 lb (27.2 kg) pail

ShieldIt 2nd Coat (Light Grey): 12.0-13.0 m^2 (130-140 ft^2) of surface area per 27.2 kg (60 lb) pail.

The coverage for other applications is dependent upon the surface of the substrate and the thickness of the application.

Properties
Working Time - After mixing, the working time of the ShieldIt Base Coats is approximately 1 hour, depending on ambient conditions.

Drying Time - The drying time of the ShieldIt Base Coats is dependent upon the air temperature and relative humidity. Under average drying conditions [21 °C (70 °F), 55% R.H.], the mixture will dry in 24 hours. Protect work from rain for at least 24 hours. Being cementitious products, the ShieldIt Base Coats will develop full strength in 28 days.

Application Procedure
For complete application instructions, refer to Dryvit ShieldIt Application Instructions DSC878.

Job Conditions - Air and surface temperatures for the application of the ShieldIt Base Coats must be between 4 °C (40 °F) and 38 °C (100 °F) and must remain so for a minimum of 24 hours.

Temporary Protection - Shall be provided at all times until the adhesive, base coat, finish and installation of permanent flashings, sealants, etc. are complete to protect the wall from inclement weather and other sources of damage.

Acceptable Substrates:
Existing EIFS lamina (reinforced base coat and finish) that is clean, dry, and in good serviceable condition – including decorative EIFS trim, profiles and mouldings; or upon consultant with Dryvit, on new Dryvit EIFS reinforced base coat, prior to the finish coat application.

Surface Preparation:
- Surfaces must be between 4 °C (40 °F) and 38 °C (100 °F) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.
- The substrate shall be flat within 6 mm (1/4 in) in a 2.4 m (100 in) radius.

Mixing - After mixing and splitting the pail of Shieldit into equal halves, thoroughly mix the Portland Cement into the ShieldIt Base Coats. Add 9.7 kg (21.4 lbs) of the Portland Cement to the Shieldit slowly with mixing. This amount of Portland Cement loose fills into a standard 5-gallon pail to 14.6 cm (5.75 in). Add it slowly and mix thoroughly for 1-2 minutes using a 12.7 mm (1/2 in) chuck, 7-amp power drill (500 rpm) with a twisty-type mixing paddle. Water may be added when mixing

ShieldIt Base Coats, but no more than 590 mL (20 oz) per pail, and this must be added to the mixture prior to the false set.

DO NOT OVERWATER THE MIXTURE AS THIS WILL DEGRADE THE PERFORMANCE OF THE PRODUCT. Allow the mixture to achieve a false set, leaving it undisturbed for 5 - 8 minutes, then remix for 1 - 2 minutes and apply the product.

Application - The ShieldIt 1st Coat is applied, and allowed to dry until it is firm-to-the-touch and then the ShieldIt 2nd Coat is applied and left to cure for at least 24 hours, prior to finish. Each base coat contains a proprietary aggregate that assists in governing the thickness of each coat. Apply each coat at a wet film thickness that results in a dry film thickness of 3.2 mm (1/8 in) nominal for the combination of both base coats.

Clean Up - Clean tools with water while the mixture is still wet.

Storage
ShieldIt 1st Coat and 2nd Coat must be stored between 4 °C (40 °F) and 38 °C (100 °F) in tightly sealed containers out of direct sunlight.

Cautions and Limitations
- Clean potable water may be added to adjust workability. Do not add water until after the cement is thoroughly mixed. Do not overwater.
- Substrate and air temperatures must be between 4 °C (40 °F) and 38 °C (100 °F) at time of application.
- Avoid working in direct sunlight and keep product mixed in the shade.
- Do not use ShieldIt Base Coats as an EIFS base coat; it is not designed to be a used as a reinforced base coat (i.e., with glass fiber reinforcing mesh embedded into the base coat).

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Printed in USA. Issued 04-24-19