



TECHNICAL DATA SHEET

SHIELDIT™

A 2-Pass Base Coat Which Improves Impact Resistance and Provides Protection from Woodpecker Damage on EIFS Substrates
DS850

PRODUCT 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.

FEATURES & BENEFITS

FEATURE	BENEFIT
<ul style="list-style-type: none">• Wet polymer modified	<ul style="list-style-type: none">• Excellent durability, adhesion
<ul style="list-style-type: none">• Extremely durable	<ul style="list-style-type: none">• Protects against woodpeckers
<ul style="list-style-type: none">• Proprietary aggregates	<ul style="list-style-type: none">• Governs the thickness of each coat

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 [70 °F (21 °C), 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.

Job Conditions: Air and surface temperatures for the application of the ShieldIt Base Coats must be between 40 °F (4 °C) and 100 °F (38 °C) 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 moldings; or upon consultant with Dryvit, on new Dryvit EIFS reinforced base coat, prior to the finish coat application.

SURFACE PREPARATION

Surfaces must be between 40 °F (4 °C) and 100 °F (38 °C) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.

MIXING

Separation of the product is expected and is normal. Mix thoroughly prior to splitting the pail of ShieldIt into equal halves. Thoroughly mix the Portland Cement into the ShieldIt Base Coats. Add 21.4 lbs (9.7 kg) of the Portland Cement to the ShieldIt slowly with mixing. This amount of Portland Cement loose fills into a standard 5-gallon pail to 5.75 in (14.6 cm). Add it slowly and mix thoroughly for 1-2 minutes using a 1/2 in (12.7 mm) chuck, 7amp power drill (500 rpm) with a twisty-type mixing paddle.

Water may be added when mixing ShieldIt Base Coats, but no more than 26 oz (769 mL) 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 1/8 in (3.2 mm) nominal for the combination of both base coats.

For complete application instructions, refer to Dryvit ShieldIt Application Instructions DS851.

COVERAGE

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

ShieldIt 1st Coat (Dark Grey): 120-130 ft² (11.0-12.0 m²) of surface area per 60 lb (27.2 kg) pail.

ShieldIt 2nd Coat (Light Grey): 130-140 ft² (12.0-13.0 m²) of surface area per 60 lb (27.2 kg) pail.

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

STORAGE

Base coats must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

CLEAN UP

Clean tools with water while the base coats are still wet.

CAUTIONS & 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 40 °F (4 °C) and 100 °F (38 °C) 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 used as a reinforced base coat (i.e., with glass fiber reinforcing mesh embedded into the base coat).

TECHNICAL AND FIELD SERVICES

Available on request.

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit products as of the date of publication of this document and is presented in good faith. Dryvit assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit.

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