



# TECHNICAL DATA SHEET

SHIELDIT™

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

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## 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 1<sup>st</sup> Coat (Sand color in pail): Mix with Type I, Type II (Type 10 or Type 20), or Type II Portland Cement. This coat could be referred to as the "scratch" or "screed" coat (Medium Gray once mixed with cement).

ShieldIt 2<sup>nd</sup> Coat (White in pail): Mix with Type I, Type II (Type 10 or Type 20), or Type II Portland Cement. This coat could be referred to as the "level" or "final skim" coat (Light Gray once mixed with cement).

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

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## BASIC 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.

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## FEATURES & BENEFITS

### FEATURE

- Wet-polymer modified
- Extremely durable
- Proprietary aggregates

### BENEFIT

- Excellent durability, adhesion
- Protects against woodpeckers
- Governs the thickness of each coat

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## 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% RH], 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 and 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 based coat, prior to the finish coat application.

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## 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.

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## MIXING

Separation of the products 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 while 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 (12.7mm) chuck, 7 amp powder drill (500 rpm) with a twisty-type mixing paddle. Water may be added when mixing ShieldIt Base Coats, but no more than 36 oz (1065 ml) per pail, and this must be added to the mixture prior to the false set.

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 OVERWAER 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.

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## APPLICATION

The ShieldIt 1<sup>st</sup> Coat is applied and allowed to dry until it is firm to the touch and then the ShieldIt 2<sup>nd</sup> 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 with 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.

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## COVERAGE

ShieldIt 1<sup>st</sup> and 2<sup>nd</sup> Coats are supplied in 80 lb (27.7 kg) pails. Each pail is mixed, split into two equal halves, which are each mixed with 21.4 lb (9.7 kg) of Type I or Type II (Type 10 or Type 20) Portland Cement, yielding approximately:

ShieldIt 1<sup>st</sup> Coat (Medium Gray): 120-130 ft<sup>2</sup> (11.0-12.0 M<sup>2</sup>) of surface area per 60 lb (27.7 kg) pail.

ShieldIt 2<sup>nd</sup> Coat (Light Gray): 130-140 ft<sup>2</sup> (12.0-13.0 M<sup>2</sup>) of surface area per 60 lb (27.7 kg) pail.

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

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## 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.

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## CLEAN UP

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

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## 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 the 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).

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## TECHNICAL SERVICES

Available on request.

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## WARRANTY

A repair or replacement warranty is available on all Dryvit products. Visit <https://www.tremcosealants.com/warranties/> for details.

Please refer to our website at [www.dryvit.com](http://www.dryvit.com) for the most up-to-date Product Data Sheets.

**NOTE: All Dryvit Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.**

DS850/1123

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[dryvit.com](http://dryvit.com) | 800.556.7752



*Construction Products Group*

3735 Green Rd. | Beachwood, OH 44122  
800.321.7906 | [tremcocpg.com](http://tremcocpg.com)