

# SHIELDIT™ BASE COATS

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



**DS852**

## ShieldIt Base Coats Specifications

**INTRODUCTION**

This document contains the Manufacturer's Standard Specification for ShieldIt Base Coats. These specifications follow the Construction Specification Institute's MasterFormat.

**UNITS**

Standard International Units (SI) are included in parentheses after the English equivalents thus:  
1/2 in (12.7 mm) 1.0 pcf (16 Kg/m<sup>3</sup>)

Please note that the conversions may not be exact but rather represent commonly used equivalents.

**DISCLAIMER**

Information contained in this specification conforms to standard detail and product recommendations for the installation of the ShieldIt Base Coats as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. 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, visit our website at [www.dryvit.com](http://www.dryvit.com) or contact Dryvit Systems, Inc., at

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**DRYVIT SYSTEMS, INC.  
MANUFACTURER'S SPECIFICATION  
CSI MASTERFORMAT SECTION 09 96 13  
SHIELDIT BASE COATS**

**PART I – GENERAL****1.01 SUMMARY**

- A. Provide all labor, materials and equipment necessary to apply the ShieldIt Base Coats over vertical walls of exterior insulation and finish systems (EIFS). For complete product description and usage refer to:
1. Dryvit ShieldIt Base Coats Data Sheet, DS850
  2. Dryvit ShieldIt Base Coats System Application Instructions, DS851
- B. Related Sections
1. Exterior Insulation and Finish System – Section 07 24 19
  2. Unit Masonry – Section 04 20 00
  3. Concrete – Sections 03 00 00
  4. Cement Plaster Section – Section 09 24 00

**1.02. REFERENCE**

- A. Section Includes
1. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials

**1.03 DESCRIPTION**

- A. ShieldIt Base Coats are acrylic polymer-modified products, which are mixed in a proprietary ratio to produce the two composite base coats for warding off woodpeckers, and improving point-impact resistance, such as on pedestrian wall areas, and decorative EIFS trim.
- B. Substrates
1. Existing EIFS lamina (reinforced base coat and finish) that is clean, dry, and in good serviceable condition, including decorative EIFS trim, profiles and mouldings.
  2. Upon consultation with Dryvit, on new Dryvit EIFS, over the reinforced base coat, prior to the finish coat application.
  3. The applicator/contractor shall verify that the proposed substrate is acceptable prior to application of the ShieldIt materials.

**1.04 SUBMITTALS**

- A. Mock-Up
1. Approximately a minimum 3.3 ft x 3.3 ft (1 m x 1 m) mock-up wall shall be coated by the applicator/contractor with the ShieldIt Base Coats materials to establish a standard of acceptance by the owner, architect or project manager.

**1.05 QUALITY ASSURANCE**

- A. Qualifications
1. Manufacturer shall be Dryvit Systems, Inc. All materials shall be manufactured or sold by Dryvit and shall be purchased from Dryvit or its authorized distributors.
    - a. Materials shall be manufactured at a facility covered by a current ISO 9001:2015 and ISO 14001:2015 certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board (ANSI-RAB).

**1.07 DELIVERY, STORAGE AND HANDLING**

- A. All Dryvit materials shall be delivered to the job site in the original, unopened packages with labels intact.
- B. Upon arrival, materials shall be inspected for physical damage, freezing or overheating. Questionable materials shall not be used.
1. Materials shall be stored at the job site, and at all times, in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Minimum storage temperature shall be 40 °F (4 °C). Maximum storage temperature shall be 100 °F (38°C).

**1.08 PROJECT CONDITIONS**

- A. Environmental Requirements
  - 1. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
  - 2. At the time of Dryvit ShieldIt Base Coat product application, the air and surface temperatures shall be between 40 °F (4 °C) minimum to 100 °F (38 °C) maximum.
  - 3. These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours.
- B. Existing Conditions
  - 1. The applicator shall have access to electric power, clean potable water and a clean work area at the location where the ShieldIt Base Coats materials are to be applied.
- C. Protection
  - 1. Adjacent areas and materials shall be protected from damage, drops and spills.
  - 2. The ShieldIt materials, including ShieldIt 1<sup>st</sup> Coat (Dark Grey) and ShieldIt 2<sup>nd</sup> Coat (Light Grey) shall be protected by permanent or temporary means from weather and other damage, prior to, during and immediately after application. Care must be taken to prevent condensation and/or heat build-up when using a tarp or plastic as protection.

**1.09 SEQUENCING AND SCHEDULING**

- A. Application shall be coordinated with other construction trades.
- B. Sufficient labor and equipment shall be employed to ensure a continuous operation.

**1.10 LIMITED MATERIALS WARRANTY**

- A. Dryvit Systems, Inc. shall provide a written limited materials warranty against defective material upon written request. Dryvit shall make no other warranties, expressed or implied. Dryvit does not warrant workmanship. Full details are available from Dryvit Systems, Inc.
- B. The applicator shall warrant workmanship separately. Dryvit shall not be responsible for workmanship associated with installation of the ShieldIt Base Coats.

**1.11 DESIGN RESPONSIBILITY**

- A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. Dryvit has prepared guidelines in the form of specifications, application instructions and product data sheets to facilitate the design process only. Dryvit is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Dryvit or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to Dryvit's published comments.

**1.12 MAINTENANCE**

- A. Maintenance and repair shall follow the procedures noted in the ShieldIt Application Instructions, DS851.
- B. Sealants and flashings should be inspected on a regular basis and repairs made as necessary.

**PART II – PRODUCTS**

**2.01 GENERAL**

- A. All products shall be supplied or obtained from Dryvit Systems or its authorized distributors. Substitutions or additions of other materials will void the warranty.

**2.02 COMPONENTS**

- A. ShieldIt 1<sup>ST</sup> Coat (Dark Grey)
  - 1. 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.
- B. ShieldIt 2<sup>nd</sup> Coat (Light Grey)
  - 1. 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.

**2.03 EQUIPMENT**

- A. Tools associated with the plastering trade.
1. Refer to the ShieldIt Base Coats Application Instructions, DS851, for a complete list of recommended tools.

**PART III - EXECUTION****3.01 EXAMINATION OF SUBSTRATE**

- A. Inspection
1. Ensure that the substrate is of a type listed in Section 1.03.B

**3.02 SUBSTRATE PREPARATION**

- A. General
1. Substrates shall be prepared in accordance with ShieldIt Base Coats Application Instructions, DS851, and as follows:
    - a. Existing EIFS: Requires the lamina to be in serviceable condition with the reinforcing mesh totally embedded in the EIFS base coat. Any necessary repairs shall be completed prior to application of ShieldIt Base Coats.
    - b. New Dryvit Exterior Insulation and Finish Systems: Requires that the reinforced base coat be fully dried (a minimum of 24 hours depending on weather conditions).

**3.03 MIXING**

- A. Split the ShieldIt Base Coat pail into two equal half pails by weight or volume.
- B. Thoroughly mix the ShieldIt Base Coat with the Portland Cement, using a 1/2 in (12.7 mm) chuck, 7-amp power drill (500 rpm) with a "Twister" mixing paddle, following mixing instruction on the ShieldIt Data Sheet, DS850.
- C. A small amount of water, no more than 20 oz. (570 mL) per pail, may be added to the mixture prior to the false set.

**3.04 APPLICATION**

- A. General
1. ShieldIt Base Coat materials shall be applied in accordance with current ShieldIt Base Coats Application Instructions, DS850.
- B. Conditions
1. Air and surface temperatures for 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.
  2. Drying time is dependent upon the air temperature and relative humidity. Under average drying conditions [70 °F (21 °C), 55% relative humidity], the product will dry in 24 hours.

**3.05 FIELD QUALITY CONTROL**

- A. The contractor shall be responsible for the proper application of the Dryvit materials.
- B. Dryvit assumes no responsibility for on-site inspections or application of its products.

**3.06 CLEANING**

- A. All excess ShieldIt Base Coats materials shall be removed from the job site by the contractor in accordance with contract provisions and as required by applicable law.

**3.06 PROTECTION**

- A. The ShieldIt Base Coats materials shall be protected from inclement weather and other sources of damage until dry and permanent protection in the form of flashings, sealants, etc. are installed.
- B. The ShieldIt Base Coats materials shall be protected by permanent or temporary means from weather and other damage, prior to, during and immediately after application. Care must be taken to prevent condensation and/or excessive heat build-up when using a tarp or plastic as protection.