

# SHIELDIT™ BASE COATS

DSC890

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

## ShieldIt™ Base Coats Specifications

**DRYVIT SYSTEMS CANADA  
MANUFACTURER'S SPECIFICATION  
SECTION 09 96 13  
SHIELDIT™ BASE COATS**

**1. GENERAL**

- 1.1. Scope
  - 1.1.1. Provide all labor, materials and equipment necessary to apply the ShieldIt Base Coats over vertical walls of exterior insulation and finish systems (EIFS).
- 1.2. Related Sections
  - 1.2.1. Exterior Insulation and Finish Systems - Section 07 24 19
  - 1.2.2. Unit Masonry – Section 04 20 00
  - 1.2.3. Concrete – Sections 03 00 00
  - 1.2.4. Cement Plaster Section 09 24 00
- 1.3. References
  - 1.3.1. ASTM E96 - Tests for Water Vapor Transmission of Materials
- 1.4. Description
  - 1.4.1. 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.
  - 1.4.2. Substrates
    - 1.4.2.1. Existing EIFS lamina (reinforced base coat and finish) that is clean, dry, and in good serviceable condition, including decorative EIFS trim, profiles and mouldings.
    - 1.4.2.2. Upon consultation with Dryvit, and with permission of the Authority Having Jurisdiction, on new Dryvit EIFS, over the reinforced base coat, prior to the finish coat application.
    - 1.4.2.3. The applicator/contractor shall verify that the proposed substrate is acceptable prior to application of the ShieldIt materials.
- 1.5. Submittals
  - 1.5.1. Mock-Up
    - 1.5.1.1. Approximately minimum 1 m x 1 m (3.3 ft x 3.3 ft) 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.
  - 1.5.2. Manufacturer's Information
    - 1.5.2.1. Submit manufacturer's product information and specifications.
- 1.6. Quality Assurance
  - 1.6.1. Qualifications
    - 1.6.1.1. Manufacturer shall be Dryvit Systems Canada.
      - 1.6.1.1.1. Materials shall be manufactured at a facility covered by a current ISO 9001:2015 certification. Certification of the facility shall be done by a registrar accredited by the American National Standards Institute, Registrar Accreditation Board(ANSI-RAB).
    - 1.6.1.2. The applicator/contractor shall be listed with Dryvit Systems Canada as a trained\* contractor and shall possess a current Dryvit trained contractor certificate.
    - 1.6.1.3.
  - 1.6.2. Performance Requirements
    - 1.6.2.1. Water Vapor Transmission (ASTM E96) – Vapour Permeable

- 1.7. Delivery, Storage and Handling
  - 1.7.1. All materials shall be delivered to the job site in the original, unopened packages with labels intact. Upon arrival, materials shall be inspected for physical damage or freezing. Questionable materials shall not be used.
  - 1.7.2. Minimum storage temperature shall be 4 °C (40 °F). Maximum storage temperature shall be 38 °C (100 °F). All materials shall be stored in a cool, dry location, out of direct sunlight and protected from weather and other damage.
- 1.8. Job Conditions
  - 1.8.1. Existing Conditions: 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.
  - 1.8.2. Environmental Conditions:
    - 1.8.2.1. The ambient air and surface temperature for application of ShieldIt materials shall be between 4 °C (40 °F) and 38 °C (100 °F) and shall remain so for at least 24 hours or until dry.
  - 1.8.3. Protection
    - 1.8.3.1. Adjacent areas and materials shall be protected from damage, drops and spills.
    - 1.8.3.2. The ShieldIt materials, including ShieldIt 1st Coat (Grey), ShieldIt 2<sup>nd</sup> Coat (White), and ShieldIt Admixture 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.
  - 1.8.4. Sequencing and Scheduling:
    - 1.8.4.1. Application shall be coordinated with other construction trades.
    - 1.8.4.2. Sufficient labour and equipment shall be employed to ensure a continuous operation.
- 1.9. Warranty
  - 1.9.1. Dryvit Systems Canada shall offer one of the following written warranties.
    - 1.9.1.1. ShieldIt Warranty as a component of a new Dryvit moisture drainage EIFS: limited materials warranty and warranty against puncture by woodpeckers for a period of 10 years following substantial completion and upon receipt of a properly executed warranty request form.
    - 1.9.1.2. ShieldIt Warranty when installed as a repair solution over existing Dryvit EIFS: limited materials warranty and warranty against puncture by woodpeckers for a period of 10 years following substantial completion and upon receipt of a properly executed warranty request form.
    - 1.9.1.3. ShieldIt Warranty when installed as a repair solution over existing non-Dryvit EIFS: limited materials warranty and warranty against puncture by woodpeckers for a period of 10 years following substantial completion and upon receipt of a properly executed warranty request form
  - 1.9.2. Contact Dryvit's Warranty Service's Department for complete details.
- 1.10. Design Responsibility
  - 1.10.1. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for their intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings etc. Dryvit has prepared guidelines in the form of specifications, application instructions and product 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, etc., 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.
- 1.11. Maintenance
  - 1.11.1. Maintenance and repair procedures shall be followed in accordance with the Application Instructions DSC878.

- 1.11.2. Sealants and flashing should be inspected on a regular basis and repairs made as necessary.

## 2. PART II – PRODUCTS

- 2.1. General
  - 2.1.1. All products shall be supplied by Dryvit Systems Canada or its authorized distributors. Substitutions or additions of other materials will void the warranty.
- 2.2. Components
  - 2.2.1. ShieldIt 1<sup>st</sup> Coat (Grey)
    - 2.2.1.1. Mixed with ShieldIt Admixture, is the 1<sup>st</sup> base coat (grey); could be referred to as the "scratch" or "screed" coat.
  - 2.2.2. ShieldIt 2<sup>nd</sup> Coat (White)
    - 2.2.2.1. Mixed with ShieldIt Admixture, is the 2<sup>nd</sup> base coat (white); could be referred to as the "level" or "final skim" coat.
  - 2.2.3. ShieldIt 1<sup>st</sup> Admixture
    - 2.2.3.1. Mixed with ShieldIt 1<sup>st</sup> Coat (Grey) and ShieldIt 2<sup>nd</sup> Coat (White).
- 2.3. Equipment
  - 2.3.1. Tools associated with the plastering trade.
    - 2.3.1.1. Refer to the ShieldIt Base Coats Application Instructions, DSC878, for a complete list of recommended tools.

## 3. PART III – EXECUTION

- 3.1. Inspection
  - 3.1.1. Examination of Substrate
    - 3.1.1.1. Ensure that the substrate is of a type listed in Section 1.4.2.
- 3.2. Substrate Preparation
  - 3.2.1. General
    - 3.2.1.1. Substrates shall be prepared in accordance with ShieldIt Base Coats Application Instructions, DSC878, and as follows:
      - 3.2.1.1.1. 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.
      - 3.2.1.1.2. 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).
- 3.3. Mixing
  - 3.3.1. Thoroughly mix the ShieldIt Base Coats with the ShieldIt Admixture using a 13 mm (1/2" chuck, 7 amp power drill (500 rpm) with a twisty-type mixing paddle, following mixing instructions on the ShieldIt data sheet, DSC 877.
  - 3.3.2. A small amount of water, no more than 25 mL (8 oz) per bag, may be added to the mixture prior to the false set.
- 3.4. Application
  - 3.4.1. General
    - 3.4.1.1. ShieldIt Base Coats materials shall be applied in accordance with current ShieldIt Base Coats Application Instructions, DSC878.
  - 3.4.2. Conditions
    - 3.4.2.1. Air and surface temperatures for 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.
    - 3.4.2.2. Drying time is dependent upon the air temperature and relative humidity. Under average drying conditions (21 °C (70 °F), 55%), the product will dry in 24 hours.
- 3.5. Field Quality Control
  - 3.5.1. The Contractor shall be responsible for the proper application of the Dryvit materials.

- 3.5.2. Dryvit assumes no responsibility for on-site inspections.
- 3.6. Cleaning
  - 3.6.1. All excess ShieldIt Base Coats materials shall be removed from the job site by the contractor in accordance with contract provisions.
- 3.7. Protection
  - 3.7.1. The ShieldIt Base Coats materials shall be protected from weather and other damage until permanent protection in the form of finish, flashings, sealants, etc. are installed.
  - 3.7.2. 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.

\*The Trained Contractor Certificate indicates certain employees of the company have been instructed in the proper application of Dryvit and ShieldIt Base Coats products and have received copies of Dryvit's Application Instructions and Specifications. The Trained Contractor Program is not an apprenticeship. Each trained contractor is an independent company experienced in the plastering trade and bears responsibility for its own workmanship. Dryvit Systems Canada assumes no liability for the workmanship of a trained contractor.