

PRODUCT DATA SHEET

BMI 777 Polymer-Modified Base Coat

POLYMER MODIFIED BASE COAT



PRODUCT DESCRIPTION

BMI 777 Polymer-Modified Base Coat is a high-performance, fiber-reinforced, dry mix, polymer modified, cementitious base coat specifically formulated for use with BMI Acrylic system.

USES

BMI 777 Polymer-Modified Base Coat is used to embed reinforcing mesh as part of the base coat for BMI Acrylic systems. Appropriate substrates:

- Exterior fiber reinforced cement or calcium silicate
- boards
- Unglazed brick
- Cement plaster
- Concrete or masonry
- Galvanized expanded metal lath 2.5 or 3.4 lb/yd²

CHARACTERISTICS / ADVANTAGES

Compliance with the following codes:

- 2009 International Building Code (IBC)
- 2009 International Residential Code (IRC)

APPROVALS / STANDARDS

Testing:

- Surface Burning Characteristics - ASTM E-84
- Water Vapor Transmission - ASTM E-94 Procedure B
- Accelerated Weathering - ASTM G-23 (Carbon Arc)
- Freeze-Thaw Resistance - ASTM E-2485
- Water Resistance - ASTM D-2247
- Tensile Bond - ASTM C-297/E-2134
- Water Penetration - ASTM E-331
- Ignitability - NFPA 268

PRODUCT INFORMATION

Packaging	50 lb (22.7 kg) bag
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 40–95 °F (4–35 °C) Protect from moisture and weather. If damp, discard material

APPLICATION INFORMATION

Coverage	120 ft ² (11 m ²) per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)
Layer Thickness	The minimum base coat thickness shall be sufficient to fully embed the BMI Mesh.

Waiting Time / Overcoating

~ 24 hours

As the temperature will affect the pot life, application temperature:

- Above 73 °F (23 °C) will reduce the pot life and workability
- Below 73 °F (23 °C) will extend the pot life and workability

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Surfaces must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.
- The substrate shall be flat within 1/4" (6.3 mm) in any 4 feet radius.

MIXING

Drill and paddle

- Add 5–6 quarts of clean potable water into a clean plastic container.
- Add BMI 777 Polymer-Modified Base Coat slowly while constantly mixing with a “twister” paddle or equivalent mixing blade, powered by a drive at 500–1200 rpm*.
- Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or BMI 777 Polymer-Modified Base Coat.
- Allow the material to set for 3–5 minutes then retemper, adding a small amount of water if necessary.
- Material must be free of lumps before using.

Mortar mixer

- Add 5–6 quarts of clean potable water for each 50 pound bag of BMI 777 Polymer-Modified Base Coat.
- Add the BMI 777 Polymer-Modified Base Coat while the mixer is running.
- Let mix 3–5 minutes, then run mixer for another 2–3 minutes to break the set adding a small amount of water if necessary to adjust workability.
- The pot life is 1–1.5 hours depending on weather.

*A minimum 7 amp drill works best for Portland cement based materials.

APPLICATION

- All insulation board irregularities greater than 1/16" (1.6 mm) must be sanded flush.
- Apply BMI 777 Polymer-Modified Base Coat to the entire surface of the insulation board.
- Fully embed the BMI Mesh in the wet base coat troweling from the center to the edge of the reinforcing mesh so as to avoid wrinkles.
- The BMI Mesh shall be continuous at all corners and lapped or butted in accordance with BMI's recommendations.
- Two coats applications is recommended.
- All areas requiring higher impact resistance shall be detailed on the plans and described in the contract documents.

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

CURING TREATMENT

- Protect work from rain for at least 24 hours.
- Being a cementitious product, the BMI 777 Polymer-Modified Base Coat mixture develops full strength in 28 days.

CLEANING OF TOOLS

- Clean tools and equipment with water immediately after use while it is still wet.

LIMITATIONS

- Do not over water BMI 777 Polymer-Modified Base Coat.
- It shall not be used to adhere EPS directly to wood-based substrates.
- Avoid working in direct sunlight and keep mixed BMI 777 Polymer-Modified Base Coat in the shade.
- BMI 777 Polymer-Modified Base Coat has been formulated to be used as a base material only, in preparation for a finish coat application. All claims made in reference to the outcome of the finish are based on the usage of BMI finish materials or other BMI recommended finishes.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LOCAL RESTRICTIONS

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800.933.7452 nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/l (EPA method 24)

LEGAL DISCLAIMER

KEEP CONTAINER TIGHTLY CLOSED •KEEP OUT OF REACH OF CHILDREN •NOT FOR INTERNAL CONSUMPTION •FOR INDUSTRIAL USE ONLY •FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 201-933-8300.

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Product Data Sheet
BMI 777 Polymer-Modified Base Coat
August 2018, Version 01.01
020405010020000025

BMI777Polymer-ModifiedBaseCoat-en-USBMI-(08-2018)-1-1.pdf

