

PRODUCT DATA SHEET

BMI Acrylic 550 Smooth Finish

EXTERIOR AND INTERIOR FINISH COAT FOR BUILDING FAÇADES

PRODUCT DESCRIPTION

BMI Acrylic 550 Smooth Finish is a premium, ready mixed, flexible textured, decorative and protective wall finish over prepared vertical, above grade concrete, EIFS, masonry and plaster/stucco substrates. BMI Acrylic 550 Smooth Finish can be used on either interior or exterior surfaces. BMI Acrylic 550 Smooth Finish is available in light or dark tint bases and can be integrally colored with Colorfast pigment system.

USES

BMI Acrylic 550 Smooth Finish may be used over interior or exterior surfaces such as:

- Stucco base coats
- EIFS
- Prepared exterior gypsum board lids
- Prepared concrete masonry in exterior/interior applications
- Drywall
- Cement board
- Sealed gypsum plaster

BMI Acrylic 550 Smooth Finish can be used as a top coat over BMI Acrylic Finishes

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion properties*
- Excellent UV resistance
- Efflorescence resistance*
- Resistant to dirt pick up
- Durable; Good surface-hardening capabilities
- Classic smooth finish
- Resistant to mildew, algae, and fungal growth
- Vapor permeable
- Available in light or dark tint bases
- Meets SCAQMD Rule 1113 when colored with Colorfast pigments

*when used with BMI Acrylic Primer 100

APPROVALS / STANDARDS

- Exceeds ASTM and ICC Acceptance Criteria
- SCAQMD Rule 1113 VOC compliant

PRODUCT INFORMATION

Chemical Base	<ul style="list-style-type: none"> ▪ Binder base: 100% acrylic polymer emulsion ▪ Filler: Mineral aggregates ▪ Proprietary additives ▪ Pigment base: Titanium Dioxide
Packaging	65 lb (29.5 kg) pail
Appearance / Color	Factory tinted to desired color

Shelf Life	15 months from date of production when stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 50–90 °F (10–32 °C). Protect from moisture, direct sunlight, and freezing. If frozen, discard material. Do not stack more than 3 pails high.
pH-Value	8.0-10.0

TECHNICAL INFORMATION

Crack Bridging Ability	Result 1" diameter @-4°F (-20°C)	ICC/ASTM Criteria —	Flexibility (Mandrel Bend) (ASTM D-522 Procedure B)
Permeability to Water Vapor	40 perms		(ASTM E-96 Procedure B)
Resistance to Weathering	Result	ICC/ASTM Criteria	
	Pass @ 5000 hours	No deleterious effects at 2000 hours when viewed under 5X magnification	Accelerated Weathering (ASTM G-153)
	Pass @ 35 days	No growth supported during 28 day exposure period	Mildew resistance (ASTM D-3273) (MIL 810 B-508)
	No Growth at 28 days	—	
	Pass @ 1000 L	No cracking or loss of film integrity at 500 L of sand	Abrasion Resistance (ASTM D-968)
	Pass @ 10,000 cycles	—	Scrub Resistance (ASTM D-2486))
Freeze-Thaw Stability	Result Pass @ 60 cycles	ICC/ASTM Criteria No deleterious effects @ 10 cycles when viewed under 5X magnification	(ASTM E-2485)
Water Resistance	Result Pass @ 28 days	ICC/ASTM Criteria No deleterious effects at 14 day exposure	(ASTM D-2247)
Salt Spray Resistance	Result Pass @ 900 hours	ICC/ASTM Criteria No deleterious effects at 300 hours	(ASTM B-117)
Reaction to Fire	Result Flame Spread: 0 to 15 Smoke Spread: 0 to 15	ICC/ASTM Criteria Flame Spread < 25 Smoke Developed < 450	(ASTM E-84)

APPLICATION INFORMATION

Coverage	One coat coverage: 180-220 ft ² (16-20 m ²) per pail at 40 mils (1 mm) thick. Two coat coverage: 90-110 ft ² (8-10 m ²) per pail at 90 mils (2 mm) thick. Normal coating system is two coats. Coverage figures do not include allowance for surface profile, porosity, material waste and suction.
Ambient Air Temperature	45–100 °F (7–37.8 °C)
Substrate Temperature	45–100 °F (7–37.8 °C)
Set Time	BMI Acrylic 550 Smooth Finish will completely dry within 24 to 48 hours.

During the dry time the finish must be protected from severe weather conditions and from potential abuse from other trades. High humidity and low temperatures will extend the cure time.

Waiting / Recoat Times

1-4 hours depending on ambient temperature, humidity, and film thickness.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surfaces must be clean and free of bond-inhibiting materials such as dirt, dust, rust, grease, oil, efflorescence, mildew, fungus, form release agents, or any other contaminants. Remove or repair any loose paint, mortar, stucco, concrete or masonry by water blasting, sandblasting, scraping or using a wire brush. Make sure surface is level prior to application. Do not use BMI Acrylic 550 Smooth Finish to level or fill "hollows" in plaster base. Substrate should be securely fastened. Repair all cracks with appropriate patching compound. Mask off area accordingly. Prime all surfaces with BMI Acrylic Primer 100 before applying BMI Acrylic Finish and/or BMI Acrylic 550 Smooth Finish. For interior drywall, prepare as for painting.

MIXING

Mix with a drill mixer and jiffler paddle or similar paddle. Do not exceed 400 rpm when mixing or the product could be air entrained which will increase "pin-holing" and decrease bonding characteristics. If BMI Acrylic 550 Smooth Finish is not factory tinted, add liquid color to the pail of finish. Make sure all the color is added by rinsing out the color vial with water into the pail. Up to 16 ounces of clean potable water may be added to BMI Acrylic 550 Smooth Finish until desired consistency is achieved.

APPLICATION

Apply BMI Acrylic 550 Smooth Finish with a stainless-steel trowel, in a continuous application, working to a wet edge to eliminate cold joints. BMI Acrylic 550 Smooth Finish does not need to be floated, but it can be wet troweled to remove trowel marks. Detail bands and shapes may be applied in the same manner. For the smoothest application, apply in two tight coats. Allow first coat to dry enough that it will not be disturbed during application of the second coat. When second coat is firm, trowel to desired smoothness. Light, consistent misting with water during smoothing will increase smoothness. Do not over trowel, over-water, or water cure when applying BMI Acrylic 550 Smooth Finish. Variations in color tint and smoothness should be expected. For spray application, spray with consistent motion, pressure, distance and spray angle to achieve a consistent texture. A job-site mock up for spray application is advised.

CLEANING OF TOOLS

Water soluble prior to drying. Clean tools and equipment with water immediately after use.

LIMITATIONS

- Ambient and surface temperature must be above 40°F(4°C) and below 100°F(38°C) during application and cure time.
- Provide supplemental heat and protection from precipitation as needed.
- Use only on surfaces that are sound, clean, dry, and free from any residue that might affect the ability of BMI Acrylic 550 Smooth Finish to bond to the surface.
- Allow substrate sufficient time to dry after rain or other inclement conditions.
- Minimum age of concrete prior to the application is 28 days, depending on curing and drying conditions. Moisture content must be below 5%.
- Minimum age of Portland cement plaster must be 7 days.
- Normal coating system is two coats for BMI Acrylic 550 Smooth Finish. One coat coverage recommended only for recoating over existing coatings. Adhesion and compatibility testing is recommended.
- Finish color is very consistent but may vary slightly depending on suction, drying time, application technique and ambient conditions.
- Cracks in basecoats may propagate out through BMI Acrylic 550 Smooth Finish. Irregularities in the wall plane are more evident in smooth finishes, especially under critical light.
- BMI Acrylic 550 Smooth Finish should be protected from rain for a minimum of 4 days. If curing at low temperatures, protect for 7 days.
- The use of a plastic trowel may cause large aggregates to roll, creating a swirl texture.
- Substrate must have a pH level of 12 or lower.
- Application in direct sunlight might adversely affect aesthetics. Dark colors are more subject to fading than light colors.
- Not designed for use as a vehicular traffic bearing surface.

- Protect from freezing. If frozen, discard.
- Not recommended for roofing.
- Sika is not responsible for color correctness after finish has been applied.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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, environmental, 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.

LEGAL DISCLAIMER

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

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