

## PRODUCT DATA SHEET

# BMI Acrylic 400 Medium Finish

Exterior and Interior Acrylic Finish for Building Façades

### PRODUCT DESCRIPTION

BMI Acrylic 400 Medium Finish is a ready mixed, flexible textured, decorative and protective wall finish over prepared vertical, above grade concrete, EIFS, masonry and plaster/stucco substrates. BMI Acrylic 400 Medium Finish can be used on either interior or exterior surfaces. BMI Acrylic 400 Medium Finish is available in light or dark tint bases and can be integrally colored with Colorfast pigment system.

### USES

BMI Acrylic 400 Medium Finish may be used over

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

### PRODUCT INFORMATION

<b>Chemical Base</b>	<ul style="list-style-type: none"> <li>▪ Binder base: 100% acrylic polymer</li> <li>▪ Aggregate: Pure crushed marble, rust-free</li> <li>▪ Water based: VOC compliant</li> <li>▪ Pigment base: Titanium dioxide</li> </ul>
<b>Packaging</b>	65 lb (29.5 kg) pail
<b>Appearance / Color</b>	Factory tinted to desired color
<b>Shelf Life</b>	15 months from date of production when stored properly in original, unopened and undamaged sealed packaging
<b>Storage Conditions</b>	Store dry at 50–90 °F (10–32 °C)

### CHARACTERISTICS / ADVANTAGES

- Excellent adhesion properties\*
- Excellent UV resistance
- Efflorescence resistance\*
- Resistant to dirt pick up, mildew, algae, and fungal growth
- Vapor permeable
- Durable; good surface hardening capabilities
- 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

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

<b>Crack Bridging Ability</b>	<b>Result</b> 1" diameter at -4°F (-20°C)	<b>ICC/ASTM Criteria</b> —	Flexibility (Mandrel Bend) (ASTM D-522 Procedure B)
<b>Permeability to Water Vapor</b>	40 perms* *Impermeable to water in liquid form, but breathable to water vapor		(ASTM E-96 Procedure B)
<b>Resistance to Weathering</b>	<b>Result</b> Pass @ 5,000 hours	<b>ICC/ASTM Criteria</b> No deleterious effects at 2,000 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)
	Pass @ 28 days	—	
	Pass @ 1,000 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)
<b>Freeze-Thaw Stability</b>	<b>Result</b> 60 cycles	<b>ICC/ASTM Criteria</b> No deleterious effects at 10 cycles when viewed under 5X magnification	(ASTM E-2485)
<b>Water Resistance</b>	<b>Result</b> Pass @ 28 days	<b>ICC/ASTM Criteria</b> No deleterious effects at 14 day exposure	(ASTM D-2247)
<b>Salt Spray Resistance</b>	<b>Result</b> Pass @ 900 hours	<b>ICC/ASTM Criteria</b> No deleterious effects at 300 hours	(ASTM B-117)
<b>Reaction to Fire</b>	<b>Result</b> Flame Spread: 0 to 15 Smoke Developed: 0 to 15	<b>ICC/ASTM Criteria</b> Flame Spread < 25 Smoke Developed < 450	(ASTM E-84)

## APPLICATION INFORMATION

<b>Coverage</b>	150–165 ft <sup>2</sup> (14-15 m <sup>2</sup> ) per pail. Aggregate size: 1.0 mm. Normal coating system is one coat. Coverage figures do not include allowance for surface profile and porosity or material waste.
<b>Ambient Air Temperature</b>	40–100 °F (4.4–38 °C)
<b>Substrate Temperature</b>	40–100 °F (4.4–38 °C)
<b>Set Time</b>	BMI Acrylic 400 Medium Finish will completely cure in 21 days. During the cure time the finish must be protected from severe weather conditions and from potential abuse from other trades. High humidity and low temperatures will extend set time.

## 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 400 Medium 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. 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 400 Medium 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 400 Medium Finish until desired consistency is achieved.

### APPLICATION

BMI Acrylic 400 Medium Finish should be applied with a clean plastic float or a stainless-steel trowel. A plastic float will roll the large aggregates more than a stainless steel trowel and may cause swirling. Continuously dry clean the plastic float or steel trowel while texturing. Use consistent pressure and motion to achieve the desired texture. Enough material should be applied to cover all surfaces. Always apply BMI Acrylic 400 Medium Finish in a continuous application, working to a wet edge to avoid cold joints. Finish material with a plastic float using a "figure 8" pattern. Avoid water drops and runs on uncured material. Variations in color tint 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 400 Medium 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.
- Finish color is very consistent but may vary slightly depending on suction, drying time, application technique and ambient conditions.
- Finish should be protected from rain for a minimum of 4 days. If curing at low temperatures, protect for 7 days.
- Normal coating system is one coat. Adhesion and compatibility testing is recommended.
- The use of a plastic trowel may cause large aggregates to roll, creating a swirl texture.
- 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.

#### Product Data Sheet

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## 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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