FIELDS OF APPLICATION
BioMarmorino Gloss is a high quality slaked lime plaster ideal for stucco finishes when applied to NHL cements and slaked lime stuccos, permitting endurance cycles that can last intact for centuries. BioMarmorino Gloss can be applied to all types of Portland cement surfaces, cementitious boards, MGO mineral boards, and almost any type of masonry surface prepared correctly.

BioMarmorino Gloss can be applied to directly to all interior walls surfaces composed of sheetrock, painted or non-painted, using an appropriate primer.

This plaster product is not oil proof, and can be damaged by foods, greases, body oils, color crayons or washable colored markers. Cleaning may damage or change the sheen of the paint.

PRODUCT FEATURES
BioMarmorino Gloss is a historical slaked lime plaster, ideal for interior and exterior surfaces, applied on masonry or sheetrock surfaces to provide a classical plaster finish with chromatic color variability. BioMarmorino Gloss is made in the ancient tradition, with the capabilities to carbonize to masonry surfaces providing decades of durability, withstanding most climatic conditions and not capitulate to environmental stress. BioMarmorino Gloss has been formulated to form to a slow set to permit application on large surfaces without “freezing” or setting prematurely. BioMarmorino Gloss can be applied for exterior finishes without the risk of damage from freeze/thaw, water, or damage from UV. BioMarmorino Gloss finish provides a flat finish with slight translucent depth and sublime shades of color with very slight hint of the fine aggregate that distinguishes BioMarmorino plasters. A non-acrylic product that provides superior adhesion than typical gypsum lime plasters, with custom color matching available for most medium dark colors.

This plaster product is not oil proof, and can be damaged by foods, greases, body oils, color crayons or washable colored markers. Cleaning may damage or change the sheen of the paint.

A 100% natural mineral product, completely permeable, breathable, absorbs CO₂, provides good anchoring power with mineral surfaces by carbonization. Provides protection against the formation of bacteria that forms mold. Product is considered a natural organic product, ideal for use in homes, schools, and hospitals and work sensitive areas.

BioMarmorino Gloss is specifically design to be tinted with natural oxide earth tints and 0% VOC colorants to increase esthetic color values with minimal impact to the environment and to provide toxic free air quality for indoors. BioMarmorino Gloss is an organic paint material as described in the Bio Category description.

TYPE OF PRODUCT
Slaked lime coating according to UNI 8681 with 3% organic stabilizers. No acrylic binders used.

SHEEN FINISH
Matte/Flat

COLOR
White Base. Color tint up to 8% max with approved tints. Custom color tint matching is available.

TECHNICAL DATA

<table>
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<tr>
<th>CRITERIA</th>
<th>INT. STANDARD</th>
<th>VALUE</th>
<th>UNIT</th>
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<td>TVOC &amp; VOC (including tint pigments)</td>
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Does not contain chemicals that can aggravate or cause asthma, see NIH Asthma Report 2012.

APPLICATION CYCLE INSTRUCTIONS

TROWEL APPLICATIONS

1ST COAT: Prepare surfaces for non-mineral based or portland cement bases by applying a mineral primer with BioGrip Primer Medium (see instructions). For best performance, durability, and proper carbonization, apply one (1)-coat of BioCement GF 1.0 on primed base and allow to dry for 8 – 12 hours. Surface should be smooth and even, or for decorative effects, BioCement GF 1.0 can be lightly skip troweled, or sponge finished, to heighten burnishing effects for final coat of BioMarmorino Gloss.

2ND COAT: Apply BioMarmorino Gloss to prepared base using a round edge trowel specially designed for fine plaster applications. Apply a thin layer of product and cover entire surface and then remove excess by tilting trowel to approximately 30°. Once excess has been removed, smooth surface using a 30° angle, compressing plaster using the same angle, in arched trowel motions, with a forward and backward direction, to create a smooth surface as is possible and allow product to slightly set. Do not overwork surface with a trowel after the initial covering of the surface, but allow the moisture to be absorbed into the base, so as product appears to have slightly set. Then begin to compress setting coat of BioMarmorino, pushing gently with the weight of the trowel to create a perfectly
smooth and flat surface. Allow moisture to reduce again, and continue with arched trowel motions, in a forward and backward direction, to compress surface to achieve a uniform, even, and glass like type surface. Do not continue to overwork surface with trowel motions, permitting sufficient time between compressions with a trowel for the plaster to dry naturally. Maintain a clean trowel at all times during finishes. At the last phase of drying and finishing, using a 15 – 20° angle on the finish trowel, burnish the BioMarmorino surface to achieve the desired sheen and decorative effect. Typical time lapse for this product to set between initial application and final burnishing is 1 – 3 hours when applied to a BioCement GF or natural stucco base.

3RD COAT: Traditionally, and in most cases, it is strongly suggested to not complete the last phase of burnishing on an one (1)-coat BioMarmorino application. Once BioMarmorino Gloss has visibly dried, repeat the steps of the 2nd coat indicated above, applying less material than at the initial onset of applying and covering the surface. Apply only enough material as is necessary to cover surface and permit a very smooth and flat surface. Follow instructions indicated above including the burnishing with the trowel to create a professional and traditional finish as is historically typical for BioMarmorino plasters. It is important not overwork the surface for burnishing BioMarmorino Gloss, as this product has been designed to have a polished surface. Typical time lapse for this product to set between initial application and final burnishing as a 3rd coat is 2 – 4 hours.

BRUSH APPLICATIONS
In some instances for very specific applications techniques, using a rough base of BioCement GF or GM with either a skipped trowel or sponge finish, BioMarmorino Gloss can be slightly diluted with water and using a paint brush, applying in a crisscross pattern, can create an unusual, nonpolished, durable painted masonry surface. For further visual interest, the paintbrush application can be flattened with a trowel and lightly burnished to enhance the over-all effect. This is a special effect and cannot be used for creating traditional smooth and polished surfaces as is typical with BioMarmorino.

ROLLO APPLICATIONS
This product is not recommended for roller applications.

MIXING
Prior to utilizing ready-to-use masonry products from new buckets, it is highly recommended to mix product with a drill and masonry paddle to prep material for easier removal and application. Mixing masonry products with a drill properly mixes water content and heats up the material so it renders it more pliable.

TOOLS
Apply with a polishing trowel designed specifically for BioMarmorino or Grassello Bio plaster finishes. Use stainless steel or plastic trowels as may be needed.

DRIYING TIME
Allow a drying time for the 1st coat of BioCement GF 1.0 or any of the BioMarmorino’s for at least 8 – 12 hours, and with successive coats allow at least 1 – 4 hours between coats as indicated in the instructions above, needed to create the final finish. With lower temperature and humidity more time may be needed between coats.

Do not apply BioMarmorino Gloss on the exterior if there is a risk of thunderstorms or showers during the 12 hour drying time needed for product to dry and carbonize correctly. If this risk could occur and the surface is essentially visibly dry and hard to the touch, wet surface quickly and evenly with water, starting from the bottom of the wall moving upward, without using force or sharp water directional spraying, and allow to dry. This process will help protect against flashing or water damages to the BioMarmorino during the initial carbonization period in the case of rain and subsequent rapid cooling on semi-dried BioMarmorino.

It is advised not to apply mineral paints or plasters in direct sun with temperatures over 88°F / 31°C. Never allow mineral paints or plasters to be stored or placed, with or without lids, directly in the path of the sun. Always keep lids on as is possible during work cycles to prevent the absorption of air, as most mineral products will carbonize in the presence of CO₂.

CONSUMPTION/COVERAGE
Approximately 300 ft² / 28 m² – 400 ft² / 37 m² depending on absorption and type of base. Determine exact consumption by performing a test on the surface to be treated.

PACKAGING
Plastic buckets of 1, 5 and 15 liters.

APPLICATION CYCLES ON DIFFERENT TYPES OF BASES
Virgin sheetrock surfaces must be primed or consolidated prior to application of plaster anchor coat and lime plasters. Sheetrock types are varied and types can affect final results depending on type of sheetrock.

NEW SHEETROCK
Virgin sheetrock surfaces must be primed or consolidated prior to application of plaster anchor coat and lime plasters. Sheetrock types are varied and types can affect final results depending on type of sheetrock.

STANDARD GRAY SHEETROCK ½” – ¾” FIRE RATED AND NON FIRE RATED
Sheetrock finish should be completed to a Level 3 – 4.

Apply one (1)-coat of EcoForte Consolidator diluted with water 200% and apply to all surfaces with a brush, roller or sprayer. Apply a 2nd coat of EcoForte Consolidator diluted with water 50% and re-apply only on sheetrock compound plaster wherever visible. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioGrip Primer Medium diluted with water 40% and apply to all surfaces with a brush, roller, or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Allow to dry for 8 – 12 hours.

Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

BLUE BOARD OR PLASTER BASE SHEETROCK ½” – ¾” FIRE RATED AND NON FIRE RATED
Sheetrock finish should be completed to a Level 3 – 4.

Apply one (1)-coat of BioDomus SuperFlat diluted with water 25% and apply to all surfaces, with a brush, roller, or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioGrip Primer Medium diluted with water 40% and apply to all surfaces with a brush, roller or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Allow to dry for 8 – 12 hours.

Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

GREEN BOARD SHEETROCK ½” – ¾” FIRE RATED AND NON FIRE RATED
Sheetrock finish should be completed to a Level 3 – 4.

Apply one (1)-coat of BioDomus Matte diluted with water 25% and apply to all surfaces, with a brush, roller, or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioGrip Primer Medium diluted with water 40% and apply to all surfaces with a brush, roller or sprayer. Allow to dry for 8 – 12 hours.
Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Allow to dry for 8 – 12 hours.

Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

OTHER RECOMMENDATIONS

SCREED BOARD USE

For crown or baseboard installations which require true straight wall finishes where caulk or paint is not an option for finishes, it is recommended to install a screed board, both for crown and/or base, to extend 1/8” beyond surface of sheetrock, using a string to create a parallel line, and use wedges or shims to correct discrepancies on the finished stud wall, so that during the application of BioCement GF 1.0, the material can be used to correct any uneven surfaces resulting in dips or concave surfaces so as to produce a straight wall. The BioCement GF 1.0 (typically 1/16” thick millage) can be used to fine tune discrepancy’s, not applying more than 3/16” material at a single time, otherwise cracks may form during drying period. Several coats may be required to correct overly deep wall distortions.

TRIM & FLOOR SCHEDULES

It is suggested for all plaster finishes that where possible, window, door, and finish trim, should not be installed until application of 1st coat of BioCement GF 1.0. Allow product to dry for 8 – 12 hours before installing trim.

Prep prime, paint or varnish trim with all coats with the exception of the last finish coat. Complete application of 1st and 2nd coat of BioMarmorino Gloss and allow to dry for 24 – 48 hours before continuing applying final application of finishes for trim. Finished trim edges adjacent to plaster walls should be taped with an appropriate removable type to reduce damage to a minimum to trim finishes after completion of plaster applications.

Floor finishes should also be completed to the same condition as is typical for trim schedule indicated above. It is recommended that final coat of floor varnish finish be applied after all plaster and paint schedules have been completed. Trim and floor applicators will have to perform due diligence when applying final finishes as all plaster finishes may be damaged if paints or varnishes are applied in error onto finished plaster walls.

PAINTED SHEETROCK

Painted sheetrock must be primed with an anchor coat of BioGrip Primer Medium diluted with water at 40% and allow to dry for 8 – 12 hours. Any repairs or patches made with sheetrock compound or similar material must be consolidated with EcoForte Consolidator or BioDomus SuperFlat both diluted with water at 25%, and apply to all surfaces with a brush, roller, or sprayer.

Allow to dry for 8 – 12 hours. It is advised to tape-off all trim areas before the application of any aggregated paints or plasters.

Apply one (1)-coat of BioGrip Primer Medium diluted with water 40% and apply to all surfaces with a brush, roller or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Allow to dry for 8 – 12 hours.

Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

CEMENTITIOUS BOARD

Prepare but joints with manufacturer’s recommendations for tile backer boards as may apply using mesh tape and modified acrylic mortar or thin-set as directed.

Apply one (1)-coat of BioGrip Primer Medium diluted with water 40% and apply to all surfaces with a brush, roller or sprayer. Allow to dry for 8 – 12 hours.

Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Allow to dry for 8 – 12 hours.

Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

CONCRETE FLOORS, SIDEWALKS OR DRIVEWAY

BioMarmorino Gloss cannot be used on Portland Cement based floors, sidewalk or driveways.

NEW CEMENT STUCCOS

PORTLAND CEMENTS/REINFORCED CONCRETE

New portland cement should not be painted for about 21 – 28 days to ensure proper anchoring and drying. Apply 1 coat of BioGrip Micro or Medium diluted 30% with water, 4.5 liters water to one (1)-bucket 15 liters of product; allow to dry for at least 12 hours. Apply one (1)-coat of BioCement GF 1.0 as a base plaster coat, applying with a steel trowel to desired finish as a base. Prepare base as needed to provide a level 5 finish. Apply one (1) or two (2)-coats of BioMarmorino Gloss as indicated in instructions above.

NHL 3.5 & 5.0 CEMENTS

NHL 3.5 and NHL 5.0 natural cements do not require the use of a primer when applying BioMarmorino Gloss. Depending on quality of base coat application BioMarmorino Gloss can be applied directly to surface without the need for BioCement GF 1.0. If surface finish is not prepared to a level 4 – 5, BioCement GF 1.0 must be used to properly prepare a sufficiently smooth base to permit proper application of BioMarmorino Gloss to avoid excessive product waste for final finishes.

DECAYING OR CRUMBLING STUCCOS OR POWDERY SURFACES

Chalking surfaces, which could prevent the proper anchoring of the base coating must be removed and pressure washed. Apply Potassium Silicate Concentrate, diluted 100% with water (1:1) on all damaged surfaces, applying 2 – 3 coats in rapid succession and allow to dry for at least 12 hours. Allow to dry for at least 12 hours. Apply 1 coat of BioGrip Micro or Medium diluted 30% with water, 4.5 liters water to one (1)-bucket 15 liters of product; allow to dry for at least 12 hours. Apply base, 1st coat of BioCement GF 1.0, and allow to dry for 8 – 12 hours. Apply final finishes with BioMarmorino Gloss according to instructions.

COATINGS WITH EFFLORESCENCE

Cement surfaces showing efflorescence should be removed with acid and thoroughly rinsed with water. Apply Potassium Silicate Concentrate, diluted 100% with water (1:1) on all damaged surfaces, applying 2 – 3 coats in rapid succession and allow to dry for at least 12 hours. Apply 1 coat of BioGrip Micro or Medium diluted 30% with water, 4.5 liters water to one (1)-bucket 15 liters of product; allow to dry for at least 12 hours. Apply base, 1st coat of BioCement GF 1.0, and allow to dry for 8 – 12 hours. Apply final finishes with BioMarmorino Gloss according to instructions.

For coatings on surfaces damaged by the saltpeter or efflorescence no guarantees can be provided.

AGED CEMENT STUCCOS

When new stucco repairs are performed on older cement stuccos, apply EcoForte Consolidator diluted 50% with water (2:1), to older surfaces prior to applying new cement stucco. Dirty and/or contaminated surfaces should be cleaned and any attached algae removed manually or by mechanical means, i.e., with a high-pressure washer. Stucco damaged by algae or mold should be treated with EcoDis. Apply EcoForte Consolidator to any new stucco repairs with the same dilution. Apply 1 coat of BioGrip Micro or Medium diluted 30% with water, 4.5 liters water to one (1)-bucket 15 liters of product; allow to dry for at least 12 hours. Allow base, 1st coat of BioCement GF 1.0, and allow to dry for 8 – 12 hours. Apply final finishes with BioMarmorino Gloss according to instructions.

STUCCO REPAIRS

See Aged Cement Stuccos above.

STORAGE

Store in a cool, dry and protected from frost. Close the open containers with care.

Store liquids only in plastic buckets.
WARNING!
Do not apply any products in direct exposure to strong/hot sunlight, rain, mist, high humidity (> 80%), at dew-point formation, or in the presence of strong wind. Beware of the danger of frost overnight. If any products are applied by roller or sprayer, protect surrounding surfaces as necessary. Cover glass, ceramic, natural stone, brick, metal, wood, painted surfaces and glazed tiles. Clean affected areas immediately with water. Prominent elements of the building (cornices, parapets, etc.) should be treated with skill, covering flashings, gutters, copper coatings, etc. …

Do not work in air temperature lower than 13°C / 55°F and not above 31°C / 88°F. Clean work tools with water immediately after use. Keep out of reach of children. In case of contact with eyes and skin, wash immediately with plenty of water. In cases of consumption, consult a Doctor or call the CDC Poison Center (see Safety Data Sheet).

PROTECT EYES FROM SPLASHES OF LIME PAINT OR PLASTER
In case of contact with eyes, wash immediately with plenty of water and/or a saline solution. Always keep a good supply of saline solution for eyes and use abundant amounts to wash eyes. Do not rub eyelids or physically touch your cornea or surrounding area prior to and during washing. Consult a Doctor immediately in cases of irritation or severe burning sensation. In cases of consumption, consult a Doctor or call the CDC Poison Center (see Safety Data Sheet). Keep out of reach of children.

WATER CONTAMINATION HAZARD
CLASS 1
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR, and it is classified as a non-hazardous material.

PRODUCT CONTAMINATION HAZARD
CODE CER / NORMATIVE EAC / Decision commuted by the Commission n. 2000/532/CE
NOT DANGEROUS
The directive 75/442/CEE, 08 01 production, disposal, formulation, supply, use, and removal of paints and varnishes: 10 13 04 for removal of paints and varnishes; 10 13 04 disposal of lime and hydrated lime products.

DISPOSAL
Do not enter product in its original concentration into drains or open waters. Do not store at public waste disposal sites. In case of conduction into adapted biological purification plants no disturbances need be expected. The preparation has been estimated by conventional method (calculated-procedure) of EG directive 1999/45/EG) and is classified as non-hazardous for the environment.

Dispose according to local regulations. Empty cans should be disposed of according to local regulations; plastic buckets are 100% PBS, NO. 5, approved for food storage; 100% recyclable if cleaned thoroughly prior to recycling.

ADDITIONAL INFORMATION
This Technical Sheet lists data collected on the basis of technique and experience. Given the multiplicity of use of the product they cannot be binding and the user cannot refrain from using common sense and experience for the individual case. This information shall not constitute any legal obligation and no obligation from the seller or point of purchase, or any agreements inferred by employees who sale this product. Insurance or guarantees issued by our employees or employees should always be confirmed separately in writing. Any information about product adaptability and use of the product, must be verified by user prior to purchase. Check the exact consumption of product for the surface where product may be applied to determine amount of products needed. The user must verify the color matching before starting work.

MANUFACTURER
ZETACOLOR SRL, Via Pistoiese 323, 50010 San Angelo a Lecore, FI, Italia