

FIELDS OF APPLICATION

BioMarmorino Satin 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 when applied to natural mineral substrates. BioMarmorino Satin 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 Satin can be applied to directly to all interior walls surfaces composed of drywall, 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 plaster.

PRODUCT FEATURES

BioMarmorino Satin is a historical slaked lime plaster, ideal for interior and exterior surfaces, applied on masonry or drywall surfaces to provide a classical plaster finish with chromatic color variability. BioMarmorino Satin 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 Satin has been formulated to form to a slow set to permit application on large surfaces without "freezing" or setting prematurely. BioMarmorino Satin can be applied for exterior finishes without the risk of damage from freeze/thaw, water, or damage from UV. BioMarmorino Satin finish provides a 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 to light colors.

A 97% 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.

BioCement GF 1.0 is specifically designed to be tinted with natural earth oxide tints and 0% VOC colorants to increase aesthetic color values with minimal environmental impact and toxin-free indoor air quality. BioCement GF 1.0 is category BIO which means Organic, containing at least 90% natural raw materials and the other 10% inert binders and non-toxic chemicals.

TYPE OF PRODUCT

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

SHEEN FINISH

Matte/Satin

COLOR

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

TECHNICAL DATA

| CRITERIA | INT. STANDARD | VALUE | UNIT |
|------------------------------------|--|------------|---------------------------|
| VOC | 2004/42/CE, Max. Value 40 g/l (2010) | 5.85 | g/l |
| Water Absorption Coefficient | EN 1062-3 – DIN 52617 | 0.25 | kg/(m ² • √h) |
| Vapor Permeability | DIN 53122 | - | g/m ² = 0.05 µ |
| pH Value | DIN 19266 | 13 | - |
| Natural Resistance to Mold | UNI 9805 – UNI 10795 | - | - |
| Mineral Finish | DIN 55945 | < 3.5% | Thickening Agent |
| Specific Gravity (23°C) | EN ISO 2811-2 | 1.7 | g/ml |
| Granulation | DIN 19643 | 0.3 – 0.5 | mm |
| Gloss Level | UNI EN ISO 2813 | < 10 – < 5 | Opaque |
| Natural Paint Lime Base NHL 3.5 | DIN 18363 – UNI EN 459 | 10 | % |
| Reaction to Fire | EN 13501-1:2002 | A1 | Incombustible |
| Toxicity | CEE 88/379 | Non-Toxic | - |
| Environmental Impact Certification | CEE 880/92 – CEE 1980/2000 C.C.A N° 201230/a-b | | |
| APEO (Alkyl Phenol Ethoxylates) | - | 0% | - |
| PEG (Polyethylene Glycol) | - | 0% | - |
| PG (Propylene Glycol) | - | 0% | - |
| Formaldehyde | - | 0% | - |
| Biocides | - | 0% | - |

Does not contain chemicals that can aggravate or cause asthma, see NIH Asthma Report 2012.

GENERAL APPLICATION INSTRUCTIONS

TROWEL APPLICATIONS

PRE-PRIMER / INTERIOR / EXTERIOR: It is recommended to pre-prime gray board drywall and any type of unpainted portland cement or cementitious material with EcoForte Consolidator diluted 100% with water, or 10 liters of water to one (1) 10 liter bucket, prior to the application BioGrip Medium primer (see details below in **APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACES**). Allow to dry for 8 – 12 hours. For exterior applications on any type of portland cement surfaces it is highly suggested to apply Potassium Silicate Concentrate, diluted 100% with water, o (1:1), or 10 liters of water per one (1) 10 liter bucket as a pre-primer, on all new cement surfaces, applying 2 – 3 coats in rapid succession, wet on wet, until substrate has arrived at full absorption, and allow to dry for at least 2 - 3 days.

PRIMER COAT / INTERIOR / EXTERIOR: Dilute BioGrip Medium primer with 30% water, or 4.5 liters of water per one (1) 15-liter bucket. On porous surfaces apply product abundantly so as to penetrate sufficiently to consolidate and bond correctly. On slightly porous surfaces apply product evenly as needed to cover surface completely, being careful not to leave voids or unpainted surfaces. Diluted material must be stirred constantly to permit suspension of granules and not permit settling at bottom of paint buckets during application. Allow to dry for at least 8 – 12 hours before applying any type of finish paint or plaster product.



1ST COAT: Apply BioCement GF 1.0 with 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. Make a final pass with steel or plastic trowel to create a smooth finish. 1st coat can be applied with a skipped trowel finish as an option when following the 2nd coat with BioMarmorinos or Grassello Bio's, depending on applicators methodology. 1st coat of BioCement GF 1.0 must be allowed to dry for at least 12 – 24 hours, before applying a 2nd coat of any type of slaked lime plaster.

2ND COAT: Apply BioMarmorino Satin to prepared and properly cured base as indicated above for 1st coat, 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. Do not overwork the plaster at this stage. Only work it enough to achieve a relatively smooth and even surface. Allow moisture to reduce again, and then using caution, verify that the surface can be further compressed with the trowel. If the proper set has occurred, continue with arched trowel motions, in a forward and backward direction, to compress surface to achieve a uniform, even finish, highlighting the modulations of fine grains as typical with Marmorino.

Do not continue to overwork damp surfaces with trowel motions, permitting sufficient time between compressions with a trowel for the plaster to set 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, depending on heat, humidity and base coat absorbency. Once the 2nd coat has visibility dried, a 3rd coat can then be applied.

APPLICATIONS FOR BIOGRASSELLO: It is suggested to apply one (1) coat of BioMarmorino Satin as the base coat for applications for BioGrassello Traditional or BioGrassello High Gloss. Grassello finishes usually require 2 – 4 coats, depending on color and dimension desired.

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 Satin 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 Satin, as this product has been designed to have a satin polished surface. Typical time lapse for this product to set between initial application and final burnishing as a 3rd coat is 2 – 4 hours. Plaster applicators should perform tests on sample boards until they have become familiar with drying and polishing techniques before they commit to a permanent installation.

NOTE / EXTERIOR: In extremely hot and low humidity environments, it may be required to wet the substrate surfaces both for the 1st coat of BioCement GF, and prior to proceeding to apply a 2nd coat BioCement GF, or any other ROMABIO type of Marmorino or Grassello plaster. This process of wetting the substrate must be continued during the application phase so that the 1st and subsequent coats do not pre-maturely dry during application cycles. Always avoid to apply any type of slaked lime plaster in direct sun. Pre-wetting substrate or finish coats only applies for totally cured cements or plasters.

BURNISHED FINISH: Follow instructions for the 2nd or 3rd coat, and begin to compress the setting coat of BioMarmorino Satin, pushing gently while troweling,

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 smooth surface. Do not 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 burnishing. At the last phase of drying and finishing, using a 15° – 20° angle on the finish trowel, burnish the BioMarmorino Satin 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 base coat or natural NHL stucco base. Applying in extremely hot and dry climates will require careful planning and application by an experienced applicator.

SPONGE FINISH: Allow product to be somewhat visibly dry following application for 2nd coat, using a fine grain wet sponge trowel, move sponge trowel in a circular motion, moving clockwise and then counter-clockwise to permit the raising of the aggregate to desired texture and provide an even surface. Continue this operation, wetting sponge as is necessary to create a consistent finish. If 2nd coat is drying overly fast, dampen BioMarmorino Satin slightly with water using a large masonry brush, throwing water by shaking the brush with wrist action to dampen area prior to proceeding with sponge trowel motions. This action must be done prior to the 2nd coat setting up or when it is in the phase of carbonization.

BRUSH APPLICATIONS

In some instances for very specific applications techniques, using a base of BioCement GF or GM with either a skipped trowel or sponge finish, BioMarmorino Satin can be slightly diluted with water and using a paint brush, applying in a crisscross pattern, can create an unusual, non-polished, 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. This technique should only be used when the products are being applied by a master finisher.

ROLLER APPLICATIONS

This product is not recommended for roller applications.

GRAIN SIZE: 0.4 mm

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 plaster finishes. Use stainless steel or plastic trowels as may be needed.

TOOL CLEANING

Trowels, hawks, brushes, rags, or sponges should be cleaned immediately after use with water thoroughly.

DRYING TIME

Allow a drying time for the 1st coat of BioCement GF 1.0 or if another type of plaster base has been used in substitution to BioCement GF 1.0, of at least 12 – 24 hours, and with successive coats allow at least 1 – 4 hours between coats as indicated in the instructions above. With lower temperature and humidity more time may be needed between coats.

Do not apply BioMarmorino Satin 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 the risk of rain could occur, and the surface is essentially visibly dry and hard to the touch, wet surface quickly and evenly with a small amount of water, starting from the bottom of the wall moving upward, without using force or sharp water directional spraying.

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.



If plaster is still wet, and has not dried, then do not attempt to wet wall with water. For small areas plastic film can be used to try to protect surfaces from damage. For larger areas allow nature to take her course. If on the next day the marmorino plaster is dry and does not indicate damages from water or has evidence of flashing (overly white hazing, or water drops frozen onto the surface), then proceed with a regular application schedules.

If flashing has occurred then it will be required to apply 1 coat of EcoForte Consolidator to the entire wall (corner to corner section), diluted with water 100%, or 10 liters of water to one (1) 10 liter bucket. Apply with brush, roller or sprayer, and allow to dry for 8 – 12 hours before commencing again with a new coat of BioMarmorino plaster.

It is advised not to apply mineral paints or plasters in direct sun with temperatures over 75°F – 80°F / 20°C – 24°C, using shaded sides of walls for applications. Extremely hot and dry climates may require the masonry base coat to be thoroughly dampened prior to application of 1st coat of plaster, or if significant time has passed between 1st coat of base application and the initiating of the 2nd coat. It is advised to not apply any mineral paints or plasters in 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 mt² – 400 ft² / 37 mt² depending on absorption and type of base. Determine exact consumption by performing a test on the surface to be treated. Final finish coats including base coats should total an average millage of thickness when applied on drywall: >3mm / 0.112 inches

PACKAGING

Plastic buckets of 1 and 25 kg.

APPLICATION CYCLES ON DIFFERENT TYPES OF SURFACES

Make sure base is solid, dry and well cleaned, prepared with skill. It is recommended to observe the rule VOB DIN 18 363, Part C, paragraph 3. Virgin drywall surfaces must be primed or consolidated prior to application of plaster anchor coat and lime plasters. Drywall types are varied and types can affect final results depending on type of drywall.

NEW DRYWALL

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

STANDARD GRAY DRYWALL ½" – ¾" FIRE RATED AND NON FIRE RATED

Drywall finish should be completed to a Level 3 – 4.

1. Apply one (1)-coat of EcoForte Consolidator diluted with water 100%, or 10 liters of water to one (1) 10 liter bucket, and apply to all surfaces with a brush, roller or sprayer. . Allow to dry for 8 – 12 hours.

2. Apply one (1)-coat of BioGrip Medium primer diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket, and apply to all surfaces with a brush, roller, or an approved sprayer for fine/medium aggregate. Allow to dry for 8 – 12 hours.

3. 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 at least 12 hours. If BioCement GF 1.0 is the base coat for other ROMABIO plasters, only one (1) coat is required as a base application.

4. Apply two (2)-coats of BioMarmorino Satin using BioCement GF 1.0 as the primary 1st base coat.

BLUE BOARD OR PLASTER BASE DRYWALL ½" – ¾" FIRE RATED AND NON FIRE RATED

Drywall finish should be completed to a Level 3 – 4.

1. Apply one (1)-coat of BioDomus SuperFlat diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket. Completely cover all surfaces with one (1) coat. Allow to dry for 8 – 12 hours before applying BioGrip Medium.

2. Apply one (1)-coat of BioGrip Medium primer diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket, and apply to all surfaces with a brush, roller, or an approved sprayer for fine/medium aggregate. Allow to dry for 8 – 12 hours.

3. 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. Make surface is covered completely and correctly to permit the effect desired with BioMarmorino Satin. Allow to dry for 12 – 24 hours. If BioCement GF 1.0 is the base coat for other ROMABIO plasters, only one (1) coat is required as a base application.

4. Apply two (2)-coats of BioMarmorino Satin using BioCement GF 1.0 as the primary base coat.

GREEN BOARD DRYWALL ½" – ¾" FIRE RATED AND NON FIRE RATED

Drywall finish should be completed to a Level 3 – 4.

1. Apply one (1)-coat of BioDomus Matte diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket. Completely cover all surfaces with one (1) coat. Allow to dry for 8 – 12 hours before applying BioGrip Medium.

2. Apply one (1)-coat of BioGrip Medium primer diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket, and apply to all surfaces with a brush, roller, or an approved sprayer for fine/medium aggregate. Allow to dry for 8 – 12 hours.

3. 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. Make surface is covered completely and correctly to permit the effect desired with BioMarmorino Satin. Allow to dry for 12 – 24 hours. If BioCement GF 1.0 is the base coat for other ROMABIO plasters, only one (1) coat is required as a base application.

4. Apply two (2)-coats of BioMarmorino Satin using BioCement GF 1.0 as the primary base coat.

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 drywall, 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 Satin 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 DRYWALL

PRE-PRIMER: Any repairs or patches made with drywall compound or similar material must be consolidated with EcoForte Consolidator or BioDomus SuperFlat both diluted with water according to instructions, 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.

PRIMER: Apply one (1) coat of BioGrip Micro primer as indicated in **GENERAL APPLICATION INSTRUCTIONS**.

1ST COAT: 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 as indicated in **GENERAL APPLICATION INSTRUCTIONS**. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated **GENERAL APPLICATION INSTRUCTIONS** above.

CEMENTITIOUS BOARD

INTERIOR / EXTERIOR: Prepare butt joints with manufacturer's recommendations for tile backer boards as may apply using mesh tape and modified acrylic mortar or thin-set as directed.

PRE-PRIMER COAT: Apply one (1)-coat of EcoForte Consolidator diluted with water 100%, or 10 liters of water to one (1) 10 liter bucket, and apply to all unprimed factory coatings with a brush, roller or sprayer. Allow to dry for 8 – 12 hours.

PRIMER: Primer is required on any type of cementitious board, painted or unpainted. Apply one (1) coat of BioGrip Medium primer as indicated in **GENERAL APPLICATION INSTRUCTIONS**.

1ST COAT: 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 as indicated in **GENERAL APPLICATION INSTRUCTIONS**. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated **GENERAL APPLICATION INSTRUCTIONS** above.

CONCRETE FLOORS, SIDEWALKS OR DRIVEWAY

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

NEW CEMENT STUCCOS

PORTLAND CEMENTS

INTERIOR / EXTERIOR: New portland cement should not be painted for about 21 – 28 days to ensure proper anchoring and drying.

PRE-PRIMER: For best results apply Potassium Silicate Concentrate, diluted 100% with water, or (1:1), or 10 liters of water per one (1) 10 liter bucket as a pre-primer, on all new cement surfaces, applying 2 – 3 coats in rapid succession, wet on wet, until substrate has arrived at full absorption, and allow to dry for at least 2 – 3 days; or as an alternative apply one (1) coat EcoForte Consolidator with brush, roller or sprayer diluted 100% with water, or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

PRIMER: Apply one (1) coat of BioGrip Medium primer as indicated in **GENERAL APPLICATION INSTRUCTIONS**.

1ST COAT: 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 12 – 24 hours. If BioCement GF 1.0 is the base coat for other ROMABIO plasters, usually only one (1) coat is required as a base application. Apply 1st coat base as needed to permit up to a level 4 – 5 finish if desiring a very smooth surface finish.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated **GENERAL APPLICATION INSTRUCTIONS** above.

NHL 3.5 & 5.0 CEMENTS: NHL 3.5 and NHL 5.0 unpainted natural cements do not require the use of a primer when applying BioCement GF 1.0. Apply 2 coats as indicated in instructions above.

CAUTION!

New portland cement stuccos should be tested for pH using Phenolphthalein, also sold as an "alkalinity test kit". This product should be spot tested on all new portland cement stucco prior to the application of any type of finish, paint or stucco product. Concrete has a naturally high pH due to the calcium hydroxide formed when portland cement reacts with water. As the concrete reacts with carbon dioxide in the atmosphere, pH decreases to 8.5 – 10.5. When a 1% phenolphthalein solution is applied to uncured concrete, it turns bright pink/purple; if it remains colorless, it shows that the concrete has undergone correct carbonation. When the test indicates bright pink or purple, this indicates that no paint or plaster product of any type should be applied to the concrete until carbonization has been completed, which usually occurs after 21 – 28 days after final installation.

REINFORCED CONCRETE SURFACES

INTERIOR / EXTERIOR: New cement surfaces should not be painted for about 28 days to ensure proper curing and drying. Follow instructions as indicated above for new cement stuccos. In many cases it may be recommended to apply TerraMare line products for 'best use' application of paint on exterior reinforced concrete surfaces.

PRE-PRIMER: For exterior surfaces it is recommended to apply one (1) coat of Potassium Silicate Concentrate diluted 100% with water, or 10 liters per one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession until concrete has completely and evenly absorbed the Potassium Silicate Concentrate into surface. Apply Potassium Silicate Concentrate with a brush, roller, or sprayer and allow to dry for 2 – 3 days; or as an alternative for interior surfaces apply one (1) coat EcoForte Consolidator with brush, roller or sprayer diluted 100% with water, or 10 liters of water per one (1) 10 liter bucket as a pre-primer, and allow to dry for at least 8 – 12 hours.

PRIMER: Apply one (1)-coat of BioGrip Medium primer diluted with water 30%, or 4.5 liters of water to one (1) 15 liter bucket, and apply to all surfaces with a brush, roller, or an approved sprayer for fine/medium aggregate. Allow to dry for 8 – 12 hours.

1ST COAT: 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 12 – 24 hours. If BioCement GF 1.0 is the base coat for other ROMABIO plasters, usually only one (1) coat is required as a base application. Apply 1st coat base as needed to permit up to a level 4 – 5 finish if desiring a very smooth surface finish.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated **GENERAL APPLICATION INSTRUCTIONS** above.

AUTOCLAVED AERATED CONCRETE

INTERIOR / EXTERIOR: BioGrip Medium is an excellent primer paint for all types of unpainted Aerated Concrete Blocks which permits the application of BioDomus and EcoDomus paints, BioCement stucco products, and Slaked Lime plasters such as BioCements, Marmorino, and Grassello. BioGrip Medium will penetrate deep into the pours of Aerated Concrete Blocks to strengthen and consolidate the surface to provide dust and particle free hardened surface.

PRE-PRIMER: It is recommended to apply one (1) coat of Potassium Silicate Concentrate diluted 100% with water, or 10 liters per one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession until aerated concrete has completely and evenly absorbed the Potassium Silicate Concentrate into surface. This process will double the strength and durability of the surfaces of aerated concrete, as well as increase adhesion of any type of applied material. Apply Potassium Silicate Concentrate with a brush, roller, or sprayer and allow to dry for at least 2 – 3 days.

PRIMER: Apply at least two (2) coats of BioGrip Medium primer as indicated in **GENERAL APPLICATION INSTRUCTIONS**.

BioGrip Medium primer will also permit applications of most types of portland cement stucco material to adhere to the surface of Aerated Concrete Blocks. Apply two (2) coats of BioGrip Medium primer before applying paint or plaster finishes to aerated block.

1ST COAT: 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 as indicated in **GENERAL APPLICATION INSTRUCTIONS**. Allow to dry for 12 – 24 hours.



2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated GENERAL APPLICATION INSTRUCTIONS above.

DECAYING OR CRUMBLING STUCCOS OR POWDERY SURFACES

INTERIOR / EXTERIOR: Chalking surfaces, which could prevent the proper anchoring of the base coating must have damaged and chalky portions be removed by pressure washing and scraping.

PRE-PRIMER: For unpainted stuccos apply Potassium Silicate Concentrate diluted 100% with water (1:1) on all damaged surfaces, or 10 liters of water to one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession, until substrate has arrived at full absorption, and allow to dry for at least 2 – 3 days. For old acrylic-free painted stuccos, apply one (1) coat EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours.

PRIMER: Apply one (1) coat of BioGrip Micro primer as indicated in GENERAL APPLICATION INSTRUCTIONS.

1ST COAT: 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 as indicated in GENERAL APPLICATION INSTRUCTIONS. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated GENERAL APPLICATION INSTRUCTIONS above.

COATINGS WITH EFFLORESCENCE

INTERIOR / EXTERIOR: Cement surfaces showing efflorescence should be aggressively cleaned with a high pressure washer, and then the efflorescence should be treated using a diluted muriatic acid, 1 part muriatic acid and 6 – 7 parts water, and allow to react for 3 – 5 minutes. Thoroughly rinse treated areas with water.

PRE-PRIMER: Apply Potassium Silicate Concentrate diluted 100% with water (1:1), or 10 liters to one (1) 10 liter bucket, on all damaged surfaces and allow to dry for at least 12 – 24 hours; or apply one (1) coat of EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours. This application applies only to unpainted, or mineral painted surfaces only.

PRIMER COAT: Apply one (1) coat of BioGrip Medium primer as indicated in GENERAL APPLICATION INSTRUCTIONS.

1ST COAT: 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 as indicated in GENERAL APPLICATION INSTRUCTIONS. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated GENERAL APPLICATION INSTRUCTIONS above.

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

ADOBE BRICK

INTERIOR / EXTERIOR: BioGrip Medium is an excellent consolidator and primer paint for unpainted mud brick walls, interior and exterior, which permits the application of BioDomus and EcoDomus paints, BioCement stucco products, and Slaked Lime plasters such as BioMarmorino and Grassello Bio. BioGrip Medium will penetrate deep into the pours of Adobe or Mud Brick walls to strengthen and consolidate the surface to provide dust and particle free hardened surface.

PRE-PRIMER COAT: It is recommended to apply one (1) coat of Potassium Silicate Concentrate diluted 100% with water, or 10 liters of water per one (1) 10 liter bucket, applying wet on wet, applying 2 – 3 coats in rapid succession until adobe brick has completely and evenly absorbed the Potassium Silicate Concentrate into surface. This process will double the strength and durability of the surfaces of adobe clay brick, as well as increase adhesion of any type of applied material. Apply Potassium Silicate Concentrate with a brush, roller, or sprayer and allow to dry for 2 – 3 days.

PRIMER COATS: Apply at least two (2) coats of BioGrip Medium primer as indicated in GENERAL APPLICATION INSTRUCTIONS.



1ST COAT: 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 as indicated in GENERAL APPLICATION INSTRUCTIONS. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated GENERAL APPLICATION INSTRUCTIONS above.

AGED CEMENT STUCCOS

INTERIOR / EXTERIOR: Dirty and/or contaminated surfaces should be treated as a priority prior to any interventions of replacing or repairing stucco. All 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 after pressure washing. These instructions are based on portland based type cement stuccos.

PRE-PRIMER: When new stucco repairs are performed on older (non-painted) cement stuccos, complete any removal of damaged stucco, rinse surfaces of dust, and apply EcoForte Consolidator to older surfaces prior to applying new cement stucco or perform repairs. Pre-prime existing surfaces applying one (1) coat of EcoForte Consolidator diluted 100% with water, or 10 liters to one (1) 10 liter bucket, and allow to dry for at least 8 – 12 hours.

PRE-PRIMER / REPAIRS: Allow new cement repairs to fully dry and cure according to instructions indicated under section; NEW CEMENT STUCCOS. Apply EcoForte Consolidator diluted as indicated onto any new stucco repairs and allow to dry for at least 8 – 12 hours.

PRIMER : Apply one (1) coat of BioGrip Medium primer as indicated in GENERAL APPLICATION INSTRUCTIONS.

1ST COAT: 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 as indicated in GENERAL APPLICATION INSTRUCTIONS. Allow to dry for 12 – 24 hours.

2ND/3RD COAT: Apply two (2)-coats of BioMarmorino Satin as indicated GENERAL APPLICATION INSTRUCTIONS above.

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

Use clear, full protection safety goggles to protect your eyes against the risk of splattering cement. 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 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 sell 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. No refunds or exchanges will be provided for tinted products after they have been consumed or applied.**

MANUFACTURER

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DATE REVISION : 02-18-2016

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