

## FIELDS OF APPLICATION

An intermediate primer coat suitable for coatings for exterior walls and surfaces, intended for application on virgin or painted portland cement based masonry surfaces prior to application of **TerraMare I**. Product contains fine grains and is excellent for filling hair-line cracks, provides for filling or granular finishes when desired. A silossanic paint product providing superior durability and adhesion than typical exterior acrylic or waterborne paints. Silossanic paints have a high performance with exposure to sun, rain, and inclement weather conditions. Silossanic Paints are particularly suited in urban environments where carbon pollution, dirt and chemicals are prevalent because of silossanic's ability to self-clean during rain cycles.

**TerraMare Grip**, is an anchor coat particularly suitable as a primer on smooth and semi rough surfaces, painted cement stuccos, reinforced concrete, brick, synthetic or plastic resin stuccos, concrete roof tiles prior to application of **TerraMare I**. Applications on virgin or non painted masonry surfaces requires that **TerraMare Sealer** always be applied prior to an application of **TerraMare Grip**.

**TerraMare Grip** can only be used on for silossanic paint products and cannot be used as a primer coat for potassium silicate products or lime based products. Silossanic paint products are not intended for large flat areas like patios, walkways or flat roofs. Silossanic paints are not water-proof.

## PRODUCT FEATURES

**TerraMare Grip** is a weather resistant, permeable/ breathable, sealer required for some virgin and painted masonry surfaces that have never been painted, including brick, portland cement stucco, cement block, poured walls, natural lime stuccos **NHL 3.5** and **NHL 5.0**, or any porous masonry surfaces. **TerraMare Sealer** is water-repellent. Good anchoring power for smooth and rough surfaces. Product has medium high pH and resists the formation of bacteria to form mold on the surface.

Silossanic paint products are not intended for large flat areas like patios, walkways or flat roofs. Silossanic paints are not water-proof.

This silossanic primer has very low VOC content and is completely permeable, breathable, and hydro-repellent. Product has excellent anchorage to all new masonry surfaces, is a non-yellowing, non-thermoplastic, with high resistance to aging. Product can be applied by using brush, roller or sprayer, with full coverage achieved in one (1)-coat.

Silossanic paint is based on a silicone rubber water based formula, being made from silica (sand), and is environmental low impact paint as described in the **Eco Category** description.

## TYPE OF PRODUCT

Silossanic coating according to DIN 4108, based on silicone rubber with organic stabilizers. No acrylic binders used.

## SHEEN FINISH

Opaque/Flat

## COLOR

White Base. Color tint up to 8% max with approved tints for white base.

## TECHNICAL DATA

CRITERIA	INT. STANDARD	VALUE	UNIT
TVOC & VOC (including tint pigments)	2004/42/CE Primer, Max. Value 30g/lt 2010	0.78	g/l
Water Absorption Coefficient	EN 1062-3 – DIN 52617	> 0.12	kg/ (m <sup>2</sup> •√h)
Vapor Permeability	EN 1062-1/UNI 10795	< 32 m / S <sub>d</sub> 0.65 medium high	g/m <sup>2</sup> (24 h)
Whiteness	CIE	65	%
Surface Retention Smog/Dirt	EN 10795	High	≤ 15
Drying Time at Low Temperature	UNI 10793	> 5	°C
Application on New Cement	UNI EN 13300	Ideal	–
Exterior Silossanic Paint	DIN 18363 paragraph 2.4.1	Yes	–
Application Quality	UNI 10794	Good	–
Hide and Cover Capacity	ISO 6504-3 M.U. 1631 (RC 100 μm umidi)	Class 2	–
pH Value	DIN 19266	7.5 – 8	–
Resistance to Mold	DIN 19266	Product resistance ideal against mold and algae for exterior application	Aspergillus Niger, Penicillum ochrochloron Pullularia pullulans
Alkaline Resistance	UNI 10795	Excellent	mm
Specific Gravity (23°C)	EN ISO 2811-2	152	Kg/lt
Granulation	DIN 19643 – EN 21524	0.6 – 0.7	mm
Gloss Level	UNI EN ISO 2813	< 5	Very Flat
Reaction to Fire	EN 13501-1:2002	A 1	–
Toxicity	EN 13501-1:2002	Non-Toxic	See Safety Data Sheet

APEO (Alkyl Phenol Ethoxylates)	–	0%	–
PEG (Polyethylene Glycol)	–	0%	–
PG (Propylene Glycol)	–	0%	–
Biocides	–	0%	–

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

## APPLICATION CYCLE INSTRUCTIONS

### BRUSH AND ROLLER APPLICATIONS

#### 1<sup>ST</sup> COAT

Apply **TerraMare Sealer** without dilution, to all new masonry surfaces prior to applying **TerraMare Grip**. Dilute **TerraMare Grip** with 20% – 25% maximum with water, 3 liters to a maximum of 3.75 liters of water per one (1) 15 liter bucket of **TerraMare Grip**. Apply one (1)-coat of diluted product to surface and allow to dry for 8 – 12 hours.

#### 2<sup>ND</sup> COAT

Not required unless insufficient product was applied to provide a fully painted surface.

### PAINT SPRAYERS

#### 1<sup>ST</sup> COAT

Follow instructions indicated above.

#### 2<sup>ND</sup> COAT

Not required.

#### SPRAY TIP USAGE

**TerraMare Grip** contains aggregate and can create difficulties using an airless sprayer unless the sprayer is a high compression sprayer, using no filters, applying product with a # 0.023 – 0.025 mm size Titanium spray tip. Consult paint sprayer manufacturer always before spraying aggregate paints.

#### GRAIN SIZE

0.6 – 0.7 mm

## MIXING PAINT & WATER

Most of our paint formulas are concentrated and require water to be added to them for proper use. This process means we can sell more coverage in an economic package that decreases the cost for transport, reduces the carbon footprint, helping the your pocket book and the environment.

**Mix paint and water with an electric drill and paint paddle, or mix well by hand! If water is sitting on the top of your mixture, the paint is not properly mixed!**

## TOOLS

Apply with brush, roller or with an appropriate sprayer and sprayer tip.

## DRYING TIME

Allow a drying time of at least eight (8) – twelve (12)-hours before applying TerraMare I. With lower temperature and humidity more time may be needed.

**Do not apply TerraMare Sealer, TerraMare Grip, TerraMare I, or TerraMare Quarzit on the exterior if there is a risk of thunderstorms or showers during the 12 hour drying time needed for product to dry correctly, or at late day with risk of dew formation.**

## CONSUMPTION/COVERAGE

Approximately 650 ft<sup>2</sup> / 60 mt<sup>2</sup> – 700 ft<sup>2</sup> / 65 mt<sup>2</sup> per 15 liters bucket. 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

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.

### NEW CEMENT STUCCOS

New cement should not be painted for about 28 days to ensure proper anchoring and drying. Apply 1 coat of TerraMare Sealer non-diluted and allow to dry for at least 8 – 12 hours. Apply one (1)-coat of TerraMare Grip diluted according to instructions and allow to dry for at least 8 hours. Apply two (2)-coats of TerraMare I or TerraMare Quarzit as per the instructions for the final finish.

### EXTERIOR PAINTED WALLS

Dirty and/or contaminated surfaces should be cleaned and any attached algae or mold removed manually or by mechanical means, i.e., with a high-pressure washer. Apply 1 coat of EcoDis on dried surface and allow to dry for at least 12 hours where algae or mold has been present. If the exterior surface is porous or powdered 1 coat of TerraMare Sealer must be applied prior to application of TerraMare Grip. Apply 1 coat of TerraMare Grip according to instructions, and then 2 coats of subsequent finish products TerraMare I or TerraMare Quarzit.

If the acrylic paint surface has a flat sheen and is intact and in excellent to good condition then Terramare finish paint can be applied without the need of sealer or grip as a primer. For best results always use TerraMare Grip prior to application of TerraMare I or TerraMare Quarzit.

### 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. Apply one (1)-coat of **TerraMare Sealer** non-diluted, with brush, roller, or sprayer and allow to dry for at least 8 – 12 hours. Apply one (1)-coat of **TerraMare Grip** diluted according to instructions and allow to dry for at least 8 hours. Apply two (2)-coats of **TerraMare I** or **TerraMare Quarzit** as per the instructions for the final finish.

## COATINGS WITH EFFLORESCENCE

Cement surfaces showing efflorescence should be removed with acid and thoroughly rinsed with water. For coatings on surfaces damaged by the saltpeter or efflorescence no guarantees can be provided. 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 **TerraMare Sealer** non-diluted and allow to dry for at least 8 – 12 hours. Apply **TerraMare Grip** as per instructions and allow to dry for at least 8 – 12 hours. Apply two (2)-coats of **TerraMare I** as per the instructions for the final finish.

## 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 one (1)-coat of **TerraMare Sealer** non-diluted, with brush, roller, or sprayer and allow to dry for at least 8 – 12 hours. Apply one (1)-coat of **TerraMare Grip** diluted according to instructions and allow to dry for at least 8 hours. Apply two (2)-coats of **TerraMare I** or **TerraMare Quarzit** as per the instructions for the final finish.

## STUCCO REPAIRS

See Aged Cement Stuccos above.

## BRICK SURFACES

Apply 1 coat of **TerraMare Sealer** non-diluted and allow to dry for at least 8 – 12 hours. Apply **TerraMare Grip** as per instructions and allow to dry for at least 8 – 12 hours. Apply two (2)-coats of **TerraMare I** or **TerraMare Quarzit** as per the instructions for the final finish.

## SYNTHETIC 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 Detergent**. Apply one (1)-coat of **TerraMare Grip** diluted according to instructions and allow to dry for at least 8 hours. Apply two (2)-coats of **TerraMare I** or **TerraMare Quarzit** as per the instructions for the final finish.

## REINFORCED CONCRETE SURFACES

New cement should not be painted for about 28 days to ensure proper anchoring and drying. Apply 1 coat of **EcoForte Consolidator** (diluted 50% with water, or 2:1), allow to dry for at least 12 hours. Apply 1 coat **TerraMare Sealer** (non-diluted), allow to dry for at least 8 – 12 hours. Apply 1 coat of **TerraMare Grip** according to instructions, and then 2 coats of subsequent finish products **TerraMare I** or **TerraMare Quarzit**.

## TILE ROOFS

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. Surfaces damaged by algae or mold should be treated with **EcoDis**. Apply one (1)-coat of **TerraMare Sealer** non-diluted, with brush or roller only, and allow to dry for at least 8 – 12 hours. Apply one (1)-coat of **TerraMare Grip** diluted according to instructions using brush or roller only and allow to dry for at least 8 hours. Apply two (2)-coats of **TerraMare Quarzit** as per the instructions for the final finish.

## STORAGE

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

## WARNING!

Do not apply any products in direct exposure to strong/hot sunlight, rain, high humidity (> 80%), at dew point formation, or in the presence of strong wind. Do not apply on damp or wet surfaces. Beware of the danger of frost overnight. If applied by roller or sprayer, protect surrounding surfaces as necessary. Protect eyes and skin from splashes of paint. 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 8°C / 46°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).

## 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

Warning: 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 can not 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 color matching must be verified by the user before starting work.**

## MANUFACTURER

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