

## FIELDS OF APPLICATION

Excellent primer coat made of silossanic resin suitable for exterior building coatings for walls and surfaces, provides excellent water repellency, and provides breathability for moisture/vapor transfer, thus reducing deterioration of masonry substrates. 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 Sealer** is a required primer/sealer before application of any silossanic paint product on virgin masonry surfaces. Silossanic paint products are not intended for large flat areas like patios, walkways or flat roofs. Silossanic paints are not waterproof.

## PRODUCT FEATURES

**TerraMare Sealer** is a weather resistant, permeable/ breathable, sealer required for all virgin masonry surfaces that have never been painted, including brick, portland cement stucco, cement block, poured cement walls, natural lime stuccos **NHL 3.5** and **NHL 5.0**, or any porous masonry surfaces. **TerraMare Sealer** is water-repellent. Because of the hydro-repellent properties this paint has self-cleaning properties and does not permit the accumulation of dirt or pollution to deposit in the stucco pores of the surface, easily washing off by rain or with a light rinsing.

Excellent 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 is based on a silicone rubber water based formula, being made from silica (sand), and is Eco-sustainable paint as described in the **Eco Category** description.

## TYPE OF PRODUCT

Silicate coating according to DIN 18363, based on silicone rubber with organic stabilizers.

## SHEEN FINISH

Clear/Flat

## COLOR

Transparent Base. Product cannot be tinted.

## TECHNICAL DATA

CRITERIA	INT. STANDARD	VALUE	UNIT
TVOC & VOC (including tint pigments)	2004/42/CE Primer, Max. Value 30g/lt (2010)	5	g/l
Water Absorption Coefficient	EN 1062-3 – DIN 52617	–	kg/(m <sup>2</sup> •√h)
Vapor Permeability	EN 1062-1/UNI 10795	–	g/m <sup>2</sup> (24 h)
Surface Retention Smog/Dirt	EN 10795	Medium	> 8
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)	–	–
pH Value	DIN 19266	10	–
Resistance to Mold	DIN 19266	Product not ideal to mold and algae resistance for exterior application	–
Alkaline Resistance	UNI 10795	Low	–
Specific Weight (23°C)	EN ISO 2811-2	102	Kg/lt
Granulation	DIN 19643 – EN 21524	None	mm
Gloss Level	UNI EN ISO 2813	< 5	Very Flat (Diluted)
Reaction to Fire	EN 13501-1:2002	A3 198°C Flammable point	–
Toxicity	EN 13501-1:2002	Non-Toxic	–
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

Do not dilute with water. Apply product directly onto surface with a brush or roller, carefully covering all surfaces. Allow to dry for at least 8 – 12 hours applying **TerraMare Grip** or **TerraMare I**.

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

Not required unless an unsatisfactory 1<sup>st</sup> coat application was not performed correctly. Spot paint as necessary to cover any missed sections.

### PAINT SPRAYERS

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

Do not dilute with water. Apply product evenly and cover all surfaces completely.

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

Not required unless 1<sup>st</sup> coat application was not performed correctly.

#### SPRAY TIP USAGE

**TerraMare Sealer** can easily be applied using an airless sprayer. Apply paint product with a # 0.019 – 0.021 mm size spray tip. Always use new spray tips for starting a paint job for best results. This will also conserve the amount of paint necessary to complete the job.

#### GRAIN SIZE

0.0 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 economical 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 the appropriate sprayer and sprayer tip. New sprayer tips should be used to prevent product waste and provided for a more perfect finish.

## DRYING TIME

Allow a drying time of 8 – 12 hours before proceeding with **TerraMare Grip**, **TerraMare I** or **TerraMare Quarzit**. 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.**

## CONSUMPTION/COVERAGE

Approximately 1.500 ft<sup>2</sup> / 140 mt<sup>2</sup> per 15 liter 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 **TerraMare Sealer** (non-diluted) allow to dry for at least 8 – 12 hours. Apply 1 coat of **TerraMare Sealer** according to instructions, and then apply 1 coat of **TerraMare Grip** and 2 coats of subsequent finish products **TerraMare I** or **TerraMare Quarzit**.

### 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**.

### SYNTHETIC STUCCO

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. **TerraMare Sealer** is not required for application on acrylic surfaces. Apply 1 coat of **TerraMare Grip** according to instructions, and then 2 coats of subsequent finish products **TerraMare I** or **TerraMare Quarzit**.

### MINERAL PAINTS OR LIME WASH

Old paint should be cleaned well and verify that they are well anchored. Apply 1 coat of **EcoForte Consolidator** (diluted 50% with water, or 2:1). Finishes that are no longer well anchored should

be removed by sanding, scraping or with acid and rinsed thoroughly with water. Apply **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**.

## BRICK SURFACES

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. Apply 1 coat of **EcoDis** on dried surface and 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**.

## 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 **TerraMare I**, or **TerraMare Quarzit** as per the instructions for the final finish.

## 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 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**.

## 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 and 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**.

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 (see Stucco Repairs). 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 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**.

## STUCCO REPAIRS

To patch or repair damaged stucco, make sure that the mortar used is consistent with the strength and structure of the existing stucco to be treated. The repairs should be well anchored and completely dry, then apply 1 coat of **EcoForte Consolidator** diluted 50% with water, or (2:1). 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**.

## 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 (mist) or in the presence of strong wind. 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

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