

# MARMO SEAL-PLUS

## 1. PRODUCT IDENTIFICATION:

### Product Name - MARMOSEAL-PLUS

Manufacturer / Importer / Supplier:

### ANAV INDUSTRIES

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Marketed By:

### Marmo Solutions Pvt. Ltd.

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### MARMO SEAL PLUS:

1.Marmo Seal Plus is Semi-scumbling paint on a natural ingredient base. It is used for the production of scumble coatings that maintain the natural mineral, coloured and plastic appearance of the substrate. Marmo Seal plus was primarily developed for historically valuable and protected objects, especially in the area of "natural stone":

### 2.Properties:

2.1.The product is distinguished by its low hiding power while maintaining an actual coating character which results in two properties/advantages:

Product Name: **MARMO SEAL-PLUS**



## MARMO SEAL-PLUS

- (a) Since the coating system remains on the surface, its hydrophobic effect is on the surface and it does not penetrate into the treated substrate.
- (b) Marmo Seal Plus therefore allows a water repelling effect to be created on those mineral substrates that would otherwise show negative side effects if a hydrophobizing impregnation were to penetrate into the substrate (e.g Schleriter- Schilf sandstone: increases the degree of swelling), or when the use of a hydrophobizing impregnation is not desired.

2.2. At the same time, when Marmo Seal Plus is used, the coating has such little covering power ("scumble effect") that the substrate is still visible afterward. This avoids a "dead" look on textured or coloured substrates.

- (a) high water vapour permeability
- (b) highly tight against liquid water (driving rain and splash water)
- (c) no wetting through in extreme weather loads
- (d) no swelling

2.3. Building materials protected with Marmo Seal Plus absorb only very little water when it rains and can easily give off these slight amounts in dry periods. Because of this, the building material remains essentially dry and damage from moisture does not occur.

- (a) little tendency to soil
- (b) low stress
- (c) easy to work
- (d) slightly alkaline coating system
- (e) no spots or seams
- (f) easily coated over
- (g) unlimited colour variation in the historical colour range
- (h) matt appearance, also depending on substrate
- (i) mineral-like character
- (j) high weather resistance
- (k) can be applied to weathered, load-bearing, old coatings
- (l) environmentally correct
- (m) non-corrosive

Product Name: **MARMO SEAL-PLUS**



## MARMO SEAL-PLUS

### 3.Characteristic data of the product in the packaged state:

- (a) Binder: organosilicon modified copolymers
- (b) Pigments: inorganic, alkali resistant, absolutely lightfast oxide pigments, TiO<sub>2</sub>-free
- (c) Fillers: inorganic, pure mineral
- (d) Density: approx. 1.4 g/cm<sup>3</sup> depending on colour
- (e) Viscosity: brush and roller consistency
- (f) pH value: 8 – 9

### 4.Characteristic data of the coating:

- (a) Water vapour permeability according to DIN 52615: Sd value: < 0.10 m
- (b) Water absorption coefficient according to DIN 52617: w value: < 0.1 kg/m<sup>2</sup> h<sup>0.5</sup>
- (c) Degree of gloss: matt mineral character
- (d) Weathering resistance: very good
- (e) Tendency to soil: little
- (f) Colours: Marmo Seal Plus special colours and unpigmented (the actual shade of colour depends on the substrate!)

### 5.Use Range:

- (a) Due to its characteristics, Marmo Seal Plus is used as a water repelling, highly water vapour permeable scumble coating on mineral building materials, e.g. natural stone and render.
- (b) It is not suitable for working over plastic, thermoplastic and elastic coating systems.
- (c) These systems must be completely removed first with Marmo Stripper.

**6.Substrate:** The substrate must be dry, clean, load-bearing, and free of loose material, dust, release agents, oil and grease. Coats of paint or other coatings that are not sound must be thoroughly removed. Clean sound weathered coatings with a high pressure cleaner.

Product Name: **MARMO SEAL-PLUS**

## MARMO SEAL-PLUS

### 7. Direction:

**7.1. Texture adjustment:** If adjustment of the texture is necessary, apply Seal Plus Grout Scumble which can also be formulated with a semi-scumble effect (Application rate: approx. 0.5 kg/m<sup>2</sup>)

**7.2. Intermediate and finishing coat:** As a rule, Marmo Seal Plus is applied twice. Application rates depend on the task to be solved as well as the absorbency and structure of the substrate. The exact amount required must be determined on a trial area. Since the optical appearance of a scumble always depends on the substrate, the desired colour can only be determined on a suitable test surface. A drying time of at least 6 hours must be observed, depending on ambient conditions, between the individual working operations. Protect from direct sunlight and rain according to rules of the trade. Do not use at temperatures below +5°C. Larger, continuous surfaces must be coated wet all at once to avoid seams.

### 8. Special scumble technique:

(a) For certain tasks (e.g. colour adjustment of areas that have been worked over with Restoration Mortar), the hiding power of Marmo Seal Plus may still be too high

(b) In these cases, the transparency of Marmo Seal Plus can be increased by a special scumble technique:

(i) By thinning with up to 10% water.

(j) By thinning with up to 10-30 % Marmoseal W.

(c) If necessary Marmo Seal Plus can be thinned with 10% water and 10% Marmo Seal W

(d) None of the modification variations stated above significantly change the technical properties of Marmo Seal Plus.

### 9. Directions:

(a) Apply to the dry and clean substrate with a brush, depending on the desired degree of scumble effect and even.

### 10. Tools and cleaning:

(a) Brush, roller

(b) Clean tools, equipment and splashes with water while the material is fresh.

Product Name: **MARMO SEAL-PLUS**



## MARMO SEAL-PLUS

### 11. Packaging, application rate and storage:

(a)Packaging: 1 l and 5 l plastic containers

(b)Application rate:

Intermediate coat: approx. 0.15 l/m<sup>2</sup>

Finishing coat: approx. 0.10 l/m<sup>2</sup>

(c)Shelf-life: At least 12 months in original containers stored cool but frost-free.

### 12.Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as on disposal and ecology is found in the latest Safety Data Sheet. (g)Shelf-life



Product Name: **MARMO SEAL-PLUS**

