

MARMO SEAL-W

1. PRODUCT IDENTIFICATION:

Product Name - MARMOSEAL-W

Manufacturer / Importer / Supplier:

ANAV INDUSTRIES

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Marketed By:

Marmo Solutions Pvt. Ltd.

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Marmo Seal W:

1. Marmo Seal W is water based, hydrophobizing impregnation agent on a silane/siloxane base. Some of its key features are;

- (a) Water based
- (b) For use indoors and outdoors
- (c) Working temperature
- (d) Brush/roller / low pressure spraying
- (e) Application rate per working operation
- (f) Store frost-free and cool, protected from moisture in closed containers
- (g) Shelf-life

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2. Range of use:

Marmo Solutions “MarmoSeal W” is used to hydrophobize porous, mineral building materials such as sandlime brick, natural stone, fair-faced brick masonry work, mineral renders, aerated and light-weight concrete. It can also be used to subsequently treat water glass paint coatings.

3. Characteristics:

- (a) Alkali stability
- (b) Single component, environment-friendly, water based impregnation agent.
- (c) No emission of pollutants
- (d) Greater job safety
- (e) Excellent water repellence
- (f) Pronounced penetration even on damp substrates
- (g) Dries clear
- (h) Practically odourless

3.1. Surface applying Measures:

- (a) Before applying the impregnation agent, dirt, pollutant crusts, efflorescence, alga and moss infestation must be removed from the substrate by a suitable cleaning procedure.
- (b) Cleaning opens the capillaries and pores and allows the impregnation agent to be absorbed.
- (c) Cleaner residue (e.g. surface-active agents) from prior cleaning measures must be thoroughly washed off since they reduce the effectiveness of Marmo Seal W.

3.2. State of the substrate:

- (a) Absorption of the impregnation agent is a prerequisite for optimal surface treatment.
- (b) The impregnation effect depends on the respective pore volume of the building material and its moisture content.
- (c) The substrate should thus be as dry as possible.
- (d) High concentrations of salts can cause severe damage to the building which cannot be prevented by a hydrophobizing impregnation.

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3.3. Adjacent surfaces:

Facade elements that are not to be impregnated such as (e.g. glass, varnished surfaces or surfaces to be varnished) and also plants should be covered with plastic sheets. Solvent-sensitive elements such as e.g. bitumen or polystyrene are not attacked.

4. Characteristics Data Of Product:

4.1. Characteristic data of the product in the packaged state:

Active ingredient:	alkyl alkoxy silane
Active ingredient content:	approx. 10% by mass
Carrier agent:	water
Density:	1.0 kg/l
pH value:	neutral
Appearance:	milky

4.2. After application and formation of active ingredients:

Water repellence:	very good
Water vapour diffusion capacity:	given
UV stability:	very good
Weathering resistance:	very good
Long term effect:	very good
Alkali resistance:	given
Tack-free drying:	given
Tendency to soil:	very little

5.1 Directions:

(a) Apply MarmoSeal W generously in a low pressure flow coating procedure, using a wide spray nozzle, so that a 30 - 50 cm long film of liquid runs down the surface of the building material.

(b) While applying, the nozzle should be led along the facade and the material immediately worked over with a brush. This process is repeated several times.

(c) MarmoSeal W is to be applied, wet-on-wet, from top to bottom.

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- (d) To avoid missing places, limited sections should be completely impregnated with out interruption at a time.
- (e) For smaller, complicated surfaces that do not allow a spraying procedure, work can be carried out with a brush.
- (f) The only way to avoid insufficient application rates is to saturate the brush well.
- (g) Freshly treated surfaces should be protected from driving rain for at least 5 hours.
- (h) Strong wind and sunlight can accelerate the evaporation of the carrier agent which negatively influences penetration depth.
- (i) MarmoSeal W can also be applied to slightly damp building materials.

5.2. Working temperature:

Hydrophobizing impregnation measures can be carried out at temperatures between 10°C and 25°C. Strong heating of the surfaces through sunlight can be avoided by using awnings. At temperatures below 10°C, evaporation of water (carrier agent) can be delayed. The full effectiveness of the impregnation develops 1 - 2 weeks after treatment, depending on weather conditions.

6. Notes:

- (a) Water based impregnation agents may activate salts in the facade, causing efflorescence to form on the surface of the facade during the drying process.
- (b) Colour intensification may also occur with some types of natural stone.
- (c) We recommend preliminary examinations and trial surfaces.

7. Cleaning:

- (a) All non-corroding low pressure, conveyor and spraying equipment and liquid pumps can be used.
- (b) The equipment must be clean.
- (c) After use and before longer pauses they should be cleaned thoroughly with water.

8.1. Packaging, application rate, shelf-life:

Packaging: Plastic canisters 1L, 5L and 20L

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Application rate:

Sand-lime brick, smooth:	at least 0.5 l/m ²
Sand-lime brick, cleft:	at least 0.7 l/m ²
Brick, fair-faced masonry:	at least 0.8 l/m ²
Brick, coarse-pored:	at least 1.5 l/m ²
Light-weight concrete:	at least 1.0 l/m ²
Natural stone, fine-pored:	at least 0.8 l/m ²
Natural stone, coarse-pored:	at least 1.5 l/m ²

The quantity of impregnation agent required for calculation and tender should be determined on a sufficiently large (1-2 m²) trial area. The effectiveness of the impregnation measures can also be tested on this surface.

8.2.Shelf-life: At least 12 months in closed, original containers stored cool but frost-free.

9.Safety Measures:

Further information on safety when transporting, storing and handling as well as on disposal and ecology is found in the latest Safety Data Sheet. Personal protective equipment is required for spraying. Use respiratory equipment with a P2 particle (made by, e.g. Dräger). For suitable protective gloves, see Safety Data Sheet. Wear closed work clothe.

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