

Environmentally Protective Coating “Gröman-nano™” GN8293 Super HG Exterior Wall Nano Coating

Usage

A premium grade coating, which is highly suitable for the decoration of external wall and building protection. Substrates can be mortar, bricks, concrete, plaster etc.

Characteristics

- Safe & non-toxic, environmental friendly due to its low VOC content.
- All – weather safeguard, good resistance to alkali and acid rain, can withstand temperature -20°C ~ 70°C.
- Wear resistance, anti-UV and excellent color retention.
- Resistance to dirt, with easy cleaning properties.
- Tough & elastic, thin & good easy-leveling ability. Spraying, brushing or rolling gives excellent result.
- Exceptionally smooth and neat coat film. It can be easily managed by using ordinary airless sprayer and accessories. Either gloss or matt surfaces are available.
- Good opacity, high luster & reflectively.
- Excellent adhesion property.
- Waterproofing & surface hydrophobic property.
- Suitable to work in moist and hot environment.
- Excellent freeze-thaw performance, which allows the coating to be effective under low temperature.
- Color is pure, permanent and brilliant.

Composition

Consists of dispersion type non-organic, water-based nano-sized resin, pigment, filler and additives.

Application

Can be sprayed, brushed or rolled and thinned down with soft water.

Recommended primer coating:

Gröman-nano™ coating GN8288 Penetrating Exterior Wall Sealer or Gröman-nano™ coating GN8254 Penetrating Wall Primer.

Interval between coats:			
Substrate temperature	0~10°C	10~20°C	20~30°C
Minimum time	3 hrs	2 hrs	1 hrs
Maximum time	No limitation		

Color: see Color Chart or can be produced in accordance with customers' request.

DFT: 45 µm / coat
WFT: 60 - 80µm / coat
Coverage: Approx. 8 sq.m./kg/coat
No. of coats: Suggested 2 - 3 coats

Method of Application:

Airless Spraying	Thinner	De-ionized water
	Tip Diameter	0.4 - 0.5 mm
	Spray Pressure	12 - 15 Mpa (about 120 - 150 kg/cm ²)
Air Spraying	Thinner	De-ionized water
	Tip Diameter	2 - 3 mm
	Spray Pressure	0.3 - 0.4 Mpa (about 3 - 4 kg/cm ²)
Roll/brush	Thinner	De-ionized water

Surface preparation:

- Remove all effloresces and debris, dirt, etc.
- Rinse thoroughly by clean water. Wrap dry by cloth, mop or sponge.
- Degrease the surface by Growseal™ degreaser, if any.
- Repair all visible cracks, honey-combs etc., by proper rendering materials.

Packing : 20kg / pail

Shelf Life : 18months. Keep in cool dry place.



GrowTech (Hong Kong) Limited

Flat 18, 14/F, Block A, Wah Lok Ind. Centre, 37 - 41 Shan Mei St., Fo Tan, N.T., Hong Kong
Tel: (852) 2305 5222 Fax: (852) 2305 5220 E-mail: info@growseal.com
Website: www.growseal.com

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Technical Specification:

Coating Membrane Colour	See Colour Chart
Particle size ≤	< 30 µm
Alkaline Resistance Test (240 hours)	Pass
Water Resistance Test (240 hours)	Pass
Brushability Test	> 25,000 cycles
Artificial Aging Resistance	> 1200 hours
Elongation at break	> 150%
Dirt Resistance Test	≤ 15%
Colour Retention	Grade 1

Finish: Matte

VOC:

Type of regulated paint under the Air Pollution Control (Volatile Organic Compounds) Regulation Code: P09-02.

VOC content (ready to use) < 50 g/litre

Remarks:

- Surface preparation is important before applying. If the surface was NOT properly treated, all surface coating will be non-effective in a short time. The pH value should be less than 10.
- Should **NOT** be applied during raining or snowing conditions or with relative humidity over 85%.
- Do **NOT** apply to substrates at temperatures below 5°C.
- After a long storage time, precipitation may appear at the bottom of the pail. This is quite normal. **Stir thoroughly before applying, a good coating will then be restored.**
- If large particles were found in the precipitation, sieving it by 120 mesh size filter. Too long storage coating must be re-checked and tested before use.
- The suggested coverage rate is just for reference only. Actual consumption depends on the required coating thickness and method of application.
- Store in cool dry place. Away from any heat source.

- Protective coating, gloves and goggles should be put on during application. Good ventilation should always be provided for easy drying. During accident with eye contact, rinse immediately with clean water and consult the medical doctor.
- The coating can be thinned to required viscosity by soft water between pH 8.5-9.5 and not more than 10% v/v.
- The coating cannot be mixed with other coating or solvent.
- This description is written entirely based on our own practical experience and testing. It could be used as a guideline for application. However, we have no idea on the working environment of the site, conditions of storage, method of application etc., we shall only be responsible to our products. With the advancement in technology, we reserve the right to revise this description without prior notice.

The information given on these product data sheet is based upon tests believed to be accurate at the time of printing, but since we have no control over the working conditions, materials involved and the circumstances under which the purchaser stores, handles or used this material, we make no warranty or condition, either express or implied, with respect to this material. We reserve the right to alter any of the foregoing information at any time without prior notice.



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