

GOLDEN DROPSAN

HIGHLY BREATHABLE “AUTO-CLEANING” DECORATIVE COATING FOR MASONRY, RENDERS AND CONCRETE

DESCRIPTION

• **GOLDEN DROPSAN** is a protective and decorative coating based on silane and acrylic dispersions, special fillers and admixtures. The dried coating offers a decorative protection against rain and dirt pick-up, and allows, due to the high permeability, the entrapped construction humidity to evaporate. Applied on concrete it will increase the resistance against carbonation (CO₂).

ADVANTAGES

- Highly impermeable to water as soon as coating has dried.
- Extremely reduced adhesion of dirt particles, hence self-cleaning when wet.
- Free from biocides.
- Increased natural protection against algae and fungal attack owing to removal of the elements fundamental to their existence, i.e. water and dirt deposits.
- Ideal protection against humidity and dirt, even for highly-stressed weather-exposed facades.
- Good permeability for water vapour and CO₂.
- Excellent weather and chalking resistance, UV-resistant.
- Easy to apply
- Mineral, extremely matt surface.

USE

GOLDEN DROPSAN keeps facades dry and looking attractive – even highly-stressed weather and atmosphere-exposed facades.

- All cement or lime based plasters and renders or concrete.
- Synthetic resin, silicone and silicate renders.
- Fair-faced masonry made of natural stone and brick.

APPLICATION

The substrates must be clean, dry, capable of bearing loads and free of separating substances, stresses and deformations.

• New plasters or cement renders: Applied after the plaster has cured and dried sufficiently (rule of thumb: 1 day standing time per mm plaster thickness). If necessary, prime with GOLDEN PRIMER SB/N

• Old plaster with load-bearing surface, solid structure and adequate adhesion to the substrate: remove dirt. Repair minor plaster damage with GOLDEN DROPSCOATING. If necessary, prime with GOLDEN DROPSAN PRIMER.

• Natural stone or brick fair-faced masonry, fully jointed masonry: prime with GOLDEN DROPSAN PRIMER.

Completely remove salt efflorescence by dry brushing. Do not clean with water again.

• Old substrate of lime, cement or silicate paint coatings: completely remove and clean off loose, chalky and poorly adhering layers by mechanical abrasion, brushing, etc. Repair minor plaster damage with GOLDEN DROPSCOATING.

• Old dispersion coatings or synthetic resin renders : completely remove and clean non load-bearing dispersion paints and synthetic resin renders using paint strippers or steam jets. Remove loose layers. If necessary, prime with GOLDEN PRIMER WB or GOLDEN PRIMER SB/N

• Elastic wear layers/coatings: suitable for repainting, provided adequately weathered and embrittled after earlier cleaning. If elasticity still present, remove with paint stripper or steam jet.

• Sandy/chalky surfaces: brush carefully and reinforce with GOLDEN PRIMER SB. Clean severely algae contaminated surfaces with GOLDEN DEMUF, and remove the deposits mechanically. In needed repeat the sequence.

In general, after decent substrate preparation, apply undercoat of GOLDEN DROPSAN PRIMER, using a brush, lambs wool roller or mechanically e.g. airless paint pump. Once dry, apply with the same tools, 2 coats of GOLDEN DROPSAN, ensuring even coverage. The second layer can be applied when the first one is touch dry. The product can be diluted adding 10% of water.

GOLDEN DROPSAN can be over paint with conventional dispersion paints, but the “breathability” of the coating will be lost.



TECHNICAL DATA (Typical values)

- Density EN ISO 2811-1: 1,5 ÷ 1,60 Kg/litre
- Solid content by weight: ~ 60%
- Final dry thickness (for 250g/m²) ~70 micron
- Consumption 200÷250 g/m² in 2 layers
- Viscosity Brookfield LV EN ISO 3219 3500±700 mPa.s
- Capillary waterabsorption EN 1062-3 0,0537 kg/m²/h^{0.5}
- Watervapour transmission EN ISO 7783-1: $V = 73,5 \text{ g/m}^2 \times d$
 $S_d = 0,28 \text{ m}$
- Contact angle (DIN N 1062 Part 2 and 3) > 140° after 24 days' drying
- Gloss Matt appearance: 2.05 % gloss (60°)
- Adhesion direct tensile EN 1542 > 0,8 N/mm²
- Salt spray (ASTM B117): No damage after 250 hours
- Accelerated ageing (ASTM G26): No change after 5.500 hours

REMARKS

- In case of high temperatures it is recommended to wet the support before application to reduce surface tensions.
- In case of porous supports it is recommended to apply first a layer of GOLDENSEAL or GOLDEN FAST SEALING.
- Do not apply the product if temperature is below 5°C or expected to drop below the following 24 hours, or is rain is expected.
- In order to avoid condensation, apply at a temperature which is at least 3°C higher than the dew point.
- Before starting the application, mix the product in order to obtain a fully homogenous product.
- Clean tools with water.

CONSUMPTION

The consumption depends on the roughness of the substrate, but as average value, 250-500 gr/m² can be assumed.

PACKAGING

Pails of 25 kg

COLOURS

As indicated on the colour chart, only pastel colours.

STORAGE

Can be kept for 1 year in stored protected from frost, and humidity. Store always above 5°C, and elevated from ground level.

PRECAUTIONS

GOLDEN DROPSAN is not harmful, but it is advisable to wear gloves and safety glasses. Rinse eyes and clean skin with water in case of contact. Consult a doctor if irritation persists. In case of digestion, drink water abundantly. It is advised to read the Safety Datasheet prior to working with this product.

The data are based on our practical experience and laboratory test. We assume no responsibility for any negative results from improper use that are due to factors unrelated to the quality of the product.

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