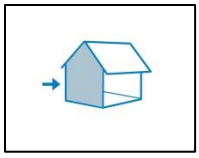
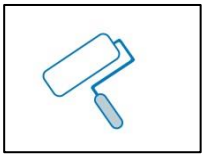
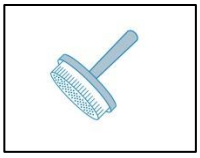
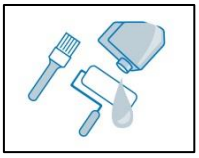
Technical Data Sheet

DisboXAN 485

Water Repellent Impregnation & Primer Based On Siloxane-Acrylic Resin For Exterior

Product Description

DisboXAN 485 is an hydrophobic impregnation of mineral, silicate-containing facades. Water-repellent primer to increase the frost/de-icing salt resistance under methacrylic resin coatings.

Recommended Use

DisboXAN 485 as hydrophobic impregnation of mineral, silicate-containing facades suitable for:

Concrete
Concrete blocks
Clinker brickwork
Sand-lime bricks
Cement-based and lime plasters/renders
ACC blocks or panels

The penetration of water and moisture in cracks, joints, rough-textured pores, etc., must be prevented.

Note:

Solvent-based impregnations should not be applied on single-leaf walls. Under certain conditions, solvent vapours can penetrate through the masonry into interior rooms.

DisboXAN 485 should only be used by experienced and trained professionals.

Physical Properties*

Colour	Clear
Volume solids	6±2%
VOC	698 g/litre
Thinner/Cleaner	Epoxy thinner
Finish	Gives a colour intensifying effect
Flash point	> 38°C
Packing size	3.75 & 18 litres
Shelf life	6 months

*The values stated are average values. All Data is valid for mixed product only. The actual value determined on an individual delivery may deviate slightly, without compromising product suitability. In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Advantages

Low viscosity, penetrating and water-repellent

Improves resistance against frost and de-icing salt under meth acrylic resin coatings

Prevents dust accumulation, algae and moss growth, moisture stains and efflorescence on facades

Gives a wet surface aspect (colour intensifying effect)

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Certificates and Test Values*

ADCE certified civil supplier

3-1001 Regulation of the water vapor permeability and the capillary water admission Fraunhofer institute of construction physics, Stuttgart

3-1002 Evaluation of the water vapor permeability, CO2 porosity, Water admission coefficient Material test institution for the civil engineering, University of Technology of Braunschweig

*Additional certificates and approvals may available on request or could be arranged if required.

Surface Preparation

The substrate must be even, clean, dry, solid, sound/stable, and free from all substances that may prevent adhesion. Remove unsound coatings of enamels, dispersion paints, synthetic renders/plasters and unsound mineral paint coatings. Clean sound, adherent paint coatings dry or wet. Clean surfaces with organic growth (moss, algae and mild) by high pressure water jet in compliance with the regulations. Allow drying thoroughly. Clean surfaces soiled with industrial gases or soot by high pressure water jet and suitable cleaners in compliance with the regulations. Adjust the substrate evenness of the planned, finer surface finish. If necessary, carry out additional substrate levelling measures. Check existing coatings for their load-bearing capacity. Remove any non-load bearing or structurally weak coatings. Any damaged areas or surface irregularities should be repaired before application. Repairs must be well set and dried out. Damp or not fully cured substrates can lead to defects in subsequent coats, such as blistering or cracks. Prime all metal, wood and concrete surfaces with a suitable primer before coating.

It is most important that substrates are correctly prepared prior to application of paint.

Mixing the Coating

The material is ready for use.

Application Tools

Brush or using the flow coating method

Method of Application

Apply facade sealer **DisboXAN 485** with a brush or using the flow coating method generously in one or two coats (wet-on-wet method), depending on the absorbency of the substrate.

Theoretical Coverage

Primer/Base/Roller/Sealer Coat- on low/medium porous, even concrete, smooth

	Minimum	Typical	Maximum	
Wet film thickness	133	166	200	µm
Dry film thickness	8	10	12	µm
Theoretical spreading rate	7.5	6.0	5.0	m²/l

*Indicated rates are indicative per coat, due allowance and wastage factor should be considered in practical application. This indication does not take into account usage for spilling or loss on site. The figure may also vary according to substrate or application conditions. The exact rate of consumption for your particular project is best established by a trial application on site and executed by your desired applicator.

Drying Time*

Substrate temperature	10°C	25°C	40°C	
Touch dry	4	2	1	h
Dry to over coat	16	8	4	h
Ready for stress	96	48	24	h

* Drying time generally related to air circulation, temperature, film thickness, no of coats and relative humidity. The given data must be considered as guidelines per coat only. The actual drying time before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. The figures given are typical with: Good ventilation (outdoor exposure or free circulation of air), typical film thickness, on coat on top of inert substrate and relative humidity 70%.

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Application Conditions

Substrate temperature should be min.5°C and at least 3°C above the dew point of the air. Suitable processing temperature should between + 5 °C to approx. 40 °C for material, substrate, water and ambient air during application and curing. At application below 10°C drying temperature will be significantly extended and spraying characteristics may be impaired. Paint to be applied to suitable primed surface. Do not apply during strong wind, fog, high relative humidity, and imminent rain or frost. Do not apply or leave to dry in direct sunlight as this can lead to differences in gloss levels and even to slight cloudiness.

Storage and Handling

Avoid storing materials where directly exposed to sunlight or where the temperature is below 0°C.

Shelf life for maximum 6 months from the date of manufacture when stored in warehouse conditions below 35°C in the original, unopened packs.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be paid to removing wastage from site in compliance with standard construction site procedures.

Health and Safety:

Flammable

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe vapors and aerosols. Avoid contact with skin and eyes. Do not empty into drains. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in well-ventilated areas. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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