



AT 380÷387

Nanosilicone plaster

Packing

Single: **25 kg bucket**

In bulk: **600 kg film-wrapped pallet**

Applications

For applying decorative thin-coat renders inside and outside of buildings, that are resistant to dirt and biocorrosion, e.g. in ALPOL insulation systems. A watertight internal microstructure of the plaster enhances cleaning capacity of its surface during rainfalls. NanoBioResistant® passive-active formula combines antibacterial and antifungal properties of active nano molecules (passive protection) with new-generation capsular shell biocides (active protection), providing a complete and long-lasting protection against biocorrosion. Integrally coloured according to **ALPOL COLOR** range.

Dashed **AT 381** and **AT 382** plasters can be applied manually or mechanically using spray guns or suitable plastering units. Pitted **AT 387** plaster is designed for manual application only. The application parameters of the **AT 380** plaster (1 mm dashed) are optimized for mechanical spraying but it is possible also to apply this plaster by hand

Substrate type

Reinforcing layer of thermal insulation system, cement and cement-lime plasters, concrete.

Substrate preparation

The substrate should be dry, clean, stable, sound and properly seasoned (reinforcing layer at least 3 days after embedding mesh in adhesive, plaster – 28 days after application, seasoned concrete). Remove brittle and loose material of poor adhesion, patch chipped areas with **ALPOL AZ 131** quick-setting mortar or **ALPOL AZ 135** levelling mortar. Treat weak or absorbent substrates with **ALPOL AG 700** deep-penetrating primer. Treat the substrate with **ALPOL AG 701** plaster primer at least 24 hours before applying the plaster. It is recommended to stain the primer to the colour of plaster.

Applications

Carefully mix the plaster with low-speed mixer before application. Work continuously on a given surface to avoid differences in plaster texture. The surfaces should be joined using “wet on wet” technique. It is recommended that plasters of the same batch are applied to cover the entire surface. Application breaks should be planned at colour joints, corners, under downpipes, etc.

Application by hand: Apply with a stainless steel float, remove the excess and level to the grain thickness, and then trowel with a plastic float to achieve a dashed or pitted texture, as required.

Mechanical application: Dilute with small amount of water if necessary. Apply using a spraying gun with the so-called funnel, or a directly attached container that can hold up to 5 kg of the product. You can also use a special-purpose plaster unit with a container that can hold approximately 25 kg of the product. In such a case the product is fed by a screw pump through a hose into the spraying lance. In both cases, spraying is effected by compressed air supplied into the endpiece of the spraying nozzle. Adjust the air pressure in the nozzle accordingly (approx. 4 atm.) and apply plaster evenly onto the substrate with smooth moves from a distance of about 40 cm. The product should be applied until the entire substrate is covered. Do not overapply to avoid excessive use and damp patches.

Tools

Low-speed electric mixer or drill, basket mixer, stainless steel trowels and steel floats, suitable tools for surface texturing (sponge floats, felt floats, Venetian floats, texturing rollers, combs or plastering brushes).

Working conditions

Before use, check if the colour is as ordered. Work in ambient temperatures between +5°C and +25°C. The plaster must not be mixed with other plasters, binders, fillers or dyes not included in the staining system. Do not thin with water. Do not use dirty or rusty tools and containers. Avoid working in intense, direct sunlight, strong wind and high air humidity. Protect freshly applied plaster with a mesh. Improper conditions during the application and drying of the plaster can cause defects in the structure, as well as discolouration and differences in colour shade. Dark colours, for which the reflectance Y specified in the colour chart is less than 20%, should not be used on large areas in external building insulation systems (ETICS systems).

Storage

In original, undamaged, tightly closed containers at temperatures between +5°C and +25°C up to 12 months from the production date. Protect the product from freezing and overheating.

Notes

Technical data and application information are given for a temperature of (20±2)°C and relative humidity of (60±5)%. The drying and full hardening time may vary depending on conditions. Wear safety goggles. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect your skin by using protective clothing and gloves. Keep out of the reach of children. Clean fresh stains with water. The manufacturer assumes no liability for damage resulting from unskilful or improper use of the product.

General recommendations

Carry out plastering work in accordance with the principles of good building practice, standards and health and safety regulations, as well as the recommendations contained in the application instructions for ALPOL insulation systems.

Technical specifications

Composition: aqueous dispersion of silicone resin, mineral fillers, acrylic copolymer dispersion, pigments and additives

Volumetric density	approx. 1,9 kg/dm ³
Drying time	approx. 24 hours
Final curing time	approx. 3 days
Water vapour permeability / water vapour diffusion resistance factor	V ₁ (high) / μ < 80
Water absorption	W ₃ (low) / w < 0,1 kg/(m ² ·h ^{0.5})
Symbol / texture and granulation / coverage	
AT 380 / dashed 1,0 mm	approx. 1,7 kg/m ²
AT 381 / dashed 1,5 mm	approx. 2,3 kg/m ²
AT 382 / dashed 2 mm	approx. 3,2 kg/m ²
AT 387 / pitted 2 mm	approx. 2,5 kg/m ²

Colour: natural, colours according to ALPOL colour charts or according to a supplied sample

Warranty: 5 years for ALPOL thermal insulation systems.

The product is a component of the certified systems: ALPOL EKO PLUS STANDARD, ALPOL EKO PLUS PREMIUM, ALPOL EKO PLUS WM, for which the Declaration of Performance has been issued.

Reference documents: National Technical Assessment: ITB-KOT-2019/0810, European Technical Assessment ETA 15/0290, ETA 17/0492. Certified by the National Institute of Hygiene (PZH).

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Fidor, 11 May 2026. This product data sheet is valid and supersedes all previous issues.