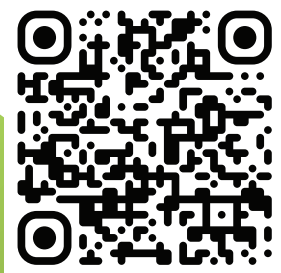


ALPHA ISOLATION

ALPHA ISOLATION is a specially developed insulating reflective coating that serves as a functional intermediate layer under the final ALPHA INNER or ALPHA FACADE coatings. It is designed to effectively reduce heat loss in winter and prevent overheating of interiors in summer. Thanks to its ability to prevent water vapor condensation on surfaces, it also acts as an effective prevention against mold growth. The product is harmless to health, environmentally friendly, and suitable for both exterior and interior use.



Downloads



Batch number: label

Last revision: 11/15/2023

Date of manufacture: label

Version: 01 For professional use

Expiration date: 24 months from the date of manufacture in the original unopened packaging



18 L

Technical and material sheet

ALPHA ISOLATION

Main features

- ✓ **Cost savings:** Significantly reduces heating and cooling costs
- ✓ **Mold prevention:** Addresses the cause of mold growth by eliminating water vapor condensation.
- ✓ **High vapor permeability:** Allows walls to "breathe" and maintains a healthy microclimate.
- ✓ **Versatility:** Designed for indoor and outdoor use on all common building substrates.
- ✓ **Excellent adhesion:** Improves the adhesion of the final coat layers.
- ✓ **Effective insulation:** Insulation properties increase with the number and thickness of the applied layers (the usual application thickness is approx. 1 mm).

Use

ALPHA ISOLATION is used as an effective intermediate layer when applying ALPHA INNER and ALPHA FACADE system coatings. It is an ideal solution for areas where it is necessary to improve the insulating properties of the surface, minimize thermal bridges, and reduce the moisture load on the structure. It is suitable for walls of residential houses, apartments, and industrial buildings. Choose ALPHA ISOLATION for healthier and more economical living.

Technical properties

Color: White shade, tinting is not possible.

Coverage: Coverage per 1 m² is approx. 1.2 liters of coating in wet condition to maintain reflective insulation and thermal insulation properties. The total thickness will be approx. 1000 microns – 1 mm! Coverage may vary depending on the absorbency and structure of the substrate, application technique, thickness of the applied layer, and other factors. The exact coverage for a specific substrate must be determined on a test area at the application site.

Application temperature: The temperature of the coating, the environment, and the substrate must be between +5 and +35 °C during application and for 24 hours after application, ideally between +10 and +25 °C.

Storage: Store in a dry, cool, frost-free place in the original sealed packaging for 24 months at temperatures between +5 °C and +35 °C. Once the bucket has been opened, use the contents within 14 days. Do not expose to direct sunlight. Opened and unused coating material (if not diluted with water) can be stored in a well-sealed container for possible repairs for a period of 3 months with as little air space as possible.

Packaging: 18 liters in PP buckets.

Application information

Tools: Paint rollers, brush, small area brush, large area application by AIRLESS spraying. Drill with mixer or special mixers with speed control.

Recommended dilution: The coating can be diluted. Caution: excessive dilution will impair the parameters of the coating. Dilute with drinking water. An 18-liter package is diluted with 0.3 liters of clean water. If you are applying with Airless equipment, it is possible to dilute more, but it is necessary to take into account that 1.2 liters of undiluted ALPHA ISOLATION must be used, i.e., 0.5 kg of material per 1 m².

Mixing: Before use, ALPHA FACADE must be thoroughly mixed with a cordless mixer to a homogeneous (uniform) consistency, according to the above recommendations, diluting with clean water. When mixing, it is necessary to stir the coating lightly, add water, and mix the entire contents thoroughly. Please note that excessive dilution of the coating material reduces its coverage and impairs its parameters. Once the container has been opened, it is advisable to use the paint as soon as possible. The entire surface should be painted using paint from a single production batch. Remove any dried paint (not hardened) from the lid of the container and mix the paint thoroughly. When handling or mixing, proceed in such a way as to prevent excessive air from entering the coating material. When applying with Airless equipment, it is ideal to strain the coating material into a second container so that the coating material does not contain any lumps that will clog the nozzle.

Note: During prolonged storage and after opening the bucket, the coating may appear to be a hard, dry mass. This is because during storage, some components (microspheres) have risen to the top and the dispersion (liquid part) has settled to the bottom. However, you can mix the coating into a consistent mass – thick "Greek yogurt." Use a spatula to break up the larger, harder pieces into smaller pieces for thorough mixing. If there is dried, hard coating on the lid, do not scrape it into the rest of the bucket, otherwise you will have lumps in the coating and it will need to be strained through a sieve.

Airless equipment: When applying with airless equipment, remove all filters from the device! There are usually three: suction, pump, and gun. The maximum pressure of the device must not exceed 160 bar. If you hear crackling in the hose, the pressure is too high and the microspheres have broken. The recommended nozzle is 517, but it is necessary to test which nozzle is most suitable for the given application and equipment. Use the spray equipment from a suitable distance to avoid streaks or transitions. The flow rate of the equipment must be at least 3 liters per minute.

Drying

The coating is dry to the touch after approx. 1 hour. The next coat can be applied after 12 hours (data applies to one coat of standard thickness under standard conditions (T = 20°C; relative humidity 60%)). Under standard conditions, freshly painted surfaces are resistant to damage (washing off of the paint layer) after 24 hours at the latest. Lower temperatures or higher humidity may prolong the drying time.

Touch dry	1 hour
For the next coat	12 hours <small>(WFT 240 µm, t = 20 °C, relative humidity 60% vol.)</small>
Fully dry and functional	in 24 hours

Cleaning tools and after application

Protect all tools from drying out during work breaks and wash with water after use. Wash contaminated areas immediately with water, as dried paint is difficult to remove. Protect all tools from drying out during work breaks.

Technical and material sheet

ALPHA ISOLATION

Surface protection

If areas that are not to be coated become contaminated, wash them immediately with water, as dried paint is difficult to remove. Ensure thorough ventilation during application and drying.

Density	0,52 g/cm ³
Appearance	White, whiteness 96 %
Gloss level	Matte
Odor	Typical for acrylic paints
Shelf life	24 months, must not freeze
Safety instructions	Read this Technical and Safety Data Sheet

Do not apply the paint if: Relative humidity is higher than 70%. The moisture content of the substrate is more than 4%, concrete more than 2.5%

Substrate and substrate preparation: The substrate must be dry, cohesive, free of impurities and active biological infestation (mold, algae), non-salty, non-greasy, chemically stable, mature. The substrate must be solid, dry, free of cracks, crevices, dust, and flaking parts. The substrate must have the same absorbency and structure across the entire surface. The substrate must be sufficiently flat; any unevenness and imperfections will be copied by the coating material.

Composition: In the first step, apply ALPHA TOTAL PRIMER according to the instructions in the Technical and Material Data Sheet and allow to dry for 12 hours.

Then apply ALPHA ISOLATION in a 1 mm layer. Once it has dried thoroughly, you can apply further layers of ALPHA ISOLATION or the final products ALPHA FACADE or ALPHA INNER.

Procedure and application: After opening the bucket, thoroughly mix the entire contents with the coating material immediately before application using a mixer and dilute with water if necessary, but no more than 4% by weight of the entire package. (AKU with screw, etc., mixer, 150 rpm).

You can adjust the coating by adding water according to the recommended dilution, see above. When applying multiple coats, observe a technological break of at least 12 hours between coats.

The prepared coating can be applied immediately. Apply with a roller, brush, or ideally with a spray device. The previous coat (layer) must be completely dry. Coating should be carried out at ideal temperatures between +5°C and +35°C. Do not coat in high humidity or on a damp substrate. During application, we recommend stirring ALPHA ISOLATION occasionally, ideally every 15 minutes. Contaminated areas, tools, and work equipment must be washed before the coating dries. Apply evenly and without interruption.

The coating is dry to the touch after approx. 1 hour. The next coat can be applied after 12 hours (data applies to one coat of standard thickness under standard conditions (T = 20°C; relative humidity 60%)). Under standard conditions, freshly painted surfaces are resistant to damage (washing off of the paint layer) after 24 hours at the latest. Lower temperatures or higher humidity may prolong the drying time.

If you are applying the paint with a sprayer, it is better to pour the mixed paint through a strainer into a second container to avoid small clumps of microspheres that could clog the nozzle.

Warning and general instructions

Processing conditions: The temperature of the substrate and air must not fall below +5 °C. During application, avoid direct sunlight, wind, or high humidity. In conditions that promote rapid drying of the interior coating (temperature above +35 °C, drafts, heated substrate, etc.), the applicator must consider all circumstances (including, for example, the size of the area) affecting the possibility of proper application, especially joining. In conditions that prolong drying (especially low temperatures and high humidity), slower drying of more than 12/24 hours must be expected. High temperatures, especially in summer, adversely shorten the drying time. High humidity or low temperatures (e.g., in late autumn) can significantly prolong the drying time and adversely affect the final color shade or properties of the coating.

Safety precautions: See the product safety data sheet for details.

Do not eat, drink, or smoke when working with ALPHA ISOLATION coating. We recommend protecting your eyes with goggles with side shields. If swallowed, rinse your mouth with water. If the product gets into your eyes, rinse them with running water. If problems persist, seek medical attention. Treat the skin with a regenerative cream after washing. Keep out of reach of children.

Disposal of packaging: The packaging is fully recyclable. The material is not classified as environmentally hazardous. Dispose of unused material or packaging in accordance with applicable regulations. Dispose of any remaining product as mixed construction and demolition waste.

Other informations

This technical data sheet, provided as part of our support to customers and processors, has been compiled based on our own experience and the current state of scientific and technical development. The procedures and recommendations given here represent, in a general sense, optimal and safe solutions, but they are not legally binding and do not establish a contractual relationship or additional obligations under the purchase contract. Nor do they relieve the processor of the responsibility to verify the suitability of this product for its intended use in specific conditions. The consumer is responsible for the correct use of the product. The information provided in this technical data sheet is based on laboratory findings and our professional experience with the aim of achieving the best possible results at a professional level when using the product. We accept no responsibility for damage caused by incorrect use of the product or its inappropriate selection. We therefore recommend that the buyer or user test our materials professionally and technically to ensure that they are suitable for the intended purpose under the given conditions in the given object.

This technical data sheet loses its validity upon the publication of its amendment. The manufacturer reserves the right to make possible later changes and additions. The manufacturer reserves the right to change the information in technical and promotional materials without prior notice. Updated versions of technical data sheets are available from the manufacturer upon request. All information in this manual is non-binding.

Manufacturer



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