

SMOOTHER - mortar

ARGACEM ULTRAFINE

Lime-based skim coat to ensure a perfectly smooth surface.

Extra-fine mineral finish (particle size 0 - 0.1 mm) specifically designed to achieve perfectly smooth white surfaces. The product, based on hydrated lime, micro crystalline sands, marble powders and specific additives, has high workability during application and fracturing, thus ensuring a pleasant aesthetic appearance. *Argacem Ultrafine* is characterized by high breathability and excellent permeability to water vapour, while the use of natural raw materials ensures the execution of high-quality smoothing with an excellent level of finish. This mortar is designed for background plasters and precast concrete panels.

Product for indoor and outdoor use.

BENEFITS

- Excellent breathability and workability.
- Pleasant aesthetic effect.
- For indoor and outdoor applications.
- Versatility of use.
- Creates perfectly smooth white surfaces.
- Prevents mold formation due to the antibacterial function of lime.
- Natural raw materials.
- Easy to apply.

YIELD

1,0 kg/m² (0.21 lb/ft²) per mm of thickness.

COLOUR

White.

PACKAGING

25 kg (55.16 lb) paper bag.
Pallet: 60 bags (1500 kg – 3306.93 lb).

APPLICATION FIELDS

Smoothing finish for indoor and outdoor environments, particularly suitable where an extra-fine finish that leaves the white surface specular is wanted. The product is used in combination with *Argatherm* smoother to obtain a perfectly smooth surface on supports such as *Diathonite* line plasters; waterproofing such as *WATstop* (see data sheet); new and old plasters; walls and

ceilings; cement or concrete-based substrates; prefabricated concrete panels. The high breathability combined with the antibacterial properties of hydrated lime contribute to creating a healthy environment and high living comfort.

STORAGE

Store the product in its original containers in covered, dry areas, away from sunlight, water and frost, at temperatures between + 5°C (+41°F) and + 35°C (+95°F). Storage time: 12 months.

PREPARATION OF SUPPORT

The substrate must be completely hardened and be correctly cured, while being compact, with sufficient strength and roughness. The surface must be thoroughly cleaned, consolidated, without any friable and inconsistent parts or other materials likely to affect the adhesion of the product. On particularly absorbent substrates, these must be moistened before applying the product, avoiding superficial water stagnations.



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Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should be considered as indicative only and should be confirmed by exhaustive practical applications. Diasen doesn't know the peculiarity of the processing, or the characteristics of the support. Therefore, the applicator should carry out preliminary tests, to verify the suitability to the foreseen application, and in any case, he will take the responsibility of the intended use. In case of uncertainties or doubts, please contact the company's technical department, provided that this is only a simple assistance for the applicator: he should have the appropriate capabilities and experience to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com

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Argatherm smoother

There is no need for a primer, the application can be carried out directly on the support, once the drying time of the chosen smoother has passed.

MIXING

According to the water absorption degree of the support and to environmental conditions, it is recommended to choose the amount of water necessary to obtain the correct adhesion. The specified water amount is indicative. Add about 40 - 45% of clean water, about 10 – 11 litres (2.64 – 2.91 gal U.S.) per bag of *Argacem Ultrafine* (25 kg – 55.16 lb). Mix with drill mixer until the product is homogeneous, without clumps and well hydrated. It is recommended to let the product rest for 5 minutes, then mix it again and use it. Do not add other substances to the mixture.

APPLICATION ON DIATHONITE LINE PLASTERS

1. Apply *Argatherm* skim coat in two layers, with a sandwich system (*Argatherm* + *Polites 80* + *Argatherm*) according to the instructions in the product's technical data sheet, to prevent the formation of cracks or micro-cracks and improve the system's resistance.
2. When the surface of the skim coat used is dry to the touch (after about 24 hours at 23°C and 50% relative humidity), apply a layer of *Argacem Ultrafine* skim coat using a smooth stainless-steel trowel with rounded edges to an approximate thickness of maximum 1 mm for each coat.
3. Once the first coat of *Argacem Ultrafine* is dry, proceed with the second coat until the yield required by the project is reached, taking care not to apply thicknesses greater than 1 mm.
4. When the applied finish is still plastic and workable, finish with a smooth stainless-steel trowel.

DRYING TIME

At +23 °C/73 °F and 50% relative humidity, the product dries in 28 days.

- Drying time is influenced by environmental relative humidity and by temperature and it may significantly change.
- The product must be protected for 48 hours from rain, leaching, frost and sudden evaporation produced by the sun or strong ventilation.
- Temperatures of less than +5 °C and more than +35 ° C in the 24 hours following installation can significantly change the hardening times and affect the final performance of the product.
- The application of coatings and paints can be carried out only after the perfect drying and curing of the background plaster, in any case not earlier than 28 days.
- In case of hot and ventilated climates, 24 hours after laying the material, ensure a wet maturation by wetting with water 2 or 3 times a day for the first 3 - 4 days.

Argacem Ultrafine can be painted with breathable and water-repellent finishes (such as *Decork Façade*, *Decork Design*, *C.W.C. Stop Condense*, *Limepaint*, and *Acrilid Protect Coating*). In order not to affect the breathability of the product, do not use barely breathable coatings or paints.

SUGGESTIONS

- Do not apply at environmental temperature and at support temperature lower than +5°C (41°F) and higher than +35°C (95°F).
- Temperatures below +5°C (41°F) and above +35°C (95°F) in the 24 hours following application can significantly alter the curing time and affect the final performance of the product.
- Apply *Argacem Ultrafine* at least 24 hours after laying the last layer of *Argatherm*.
- Do not apply on substrates made of plaster, or "scagliola", painted or treated with waterproofing products, on wooden, metal or plastic elements.

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- Once applied, the product must be protected for 48 hours from rain, washouts, frost and sudden evaporation caused by beating sun or strong winds.
- Before applying the product, it is advisable to cover thresholds, window frames and any element that should not be covered.

CLEANING

The equipment used can be washed with water before hardening of the product.

SAFETY

For handling, please follow the product safety data sheet and always use protective gloves and dust mask.

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* The above data, even if carried out according to standard test methods, are indicative and may be subject to changes to the specific site conditions.

Technical data *

Features		Unit
Yield	1.0 (kg/m ²) per mm of thickness	kg/m ²
	0.21 (lb/ft ²) per mm of thickness	lb/ft ²
	ultrafine premixed powder	-
Aspect	white	-
Color	950 ± 10%	kg/m ³
	59.31 ± 10%	lb/ft ³
Grain size	0 – 0,1	mm
	0 – 0.0039	in
Mixing water	0.40 – 0.45 L/kg	L/kg
	0.048 – 0.054 gal U.S./lb	gal U.S./lb
	10 - 11 L (2.64 – 2.91 gal U.S.) per each bag (25 kg – 55.16 lb)	
Minimum thickness	0.5 (0.020)	mm (in)
Maximum thickness per layer	1.0 (0.039)	
Maximum total thickness	2.0 (0.079)	
Application temperature	+5 /+35	°C
	+41 / +95	°F
Rest time of the mixture	5	min
Start time taken	60	minutes
Drying time (T = 23 °C/73°F C, U.R. 50%)	28	days
Storage	12	months
Package	25 kg paper bag	kg
	55.16 lb paper bag	lb

Final performances		Unit	Regulation	Result
Water vapor coefficient	μ = 8	-	EN 1015-19	-
Fire reaction	A1 class	-	EN 13501-1	-
Thermal conductivity (λ)	0,35 W/mK	W/mK	EN 1745	-
Average compressive strength at 28 days	≥ 3.0	N/mm ²	EN 1015-11	CS III category
Average flexural strength at 28 days	≥ 1.00	N/mm ²	EN 1015-11	-
Average resistance to adhesion at 28 days on concrete (f _u)	≥ 0.50	N/mm ²	EN 1015-12	typo B breaking
Water absorption coefficient by capillarity (C _m)	≤ 1.90	kg/m ² min ^{0,5}	EN 1015-18	W0 category
Apparent density of fresh mortar	1640 ± 15%	kg/m ³	-	-
Apparent density of hardened mortar	1250 ± 15%	kg/m ³	-	-

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For stockist information and full technical support for your project, please contact Ecological Building Systems or visit www.EcologicalBuildingSystems.com

