

SMOOTHER - mortar

ARGACEM HP

Mineral smoothing skim coat, highly breathable.

Powder smoothing skim coat (grain size 0-0.6 mm), highly breathable, spongeable, made of hydrated lime, natural filler and pure limestone powder. The right grain size selection and the use of specific additives guarantee a high workability during the application and correct surfaces sponging. *Argacem HP* is made of natural raw materials like hydrated lime, that boasts antibacterial and vapour permeability features. Suitable both inside and outside, it guarantees an excellent covering and a finish like “civil finish” with the use of a sponge float or plastic float.

BENEFITS

- In combination with *Diathonite* plasters, it guarantees an excellent thermal-hygrometric comfort;
- It can be applied with high thickness to obtain a flat and regular surface;
- Excellent breathability and workability;
- High covering of potential flaws or cracks of the substrate;
- Multipurpose;
- It avoids mold thanks to the antibacterial function of lime;
- Made with natural raw materials;
- Excellent aesthetic aspect.

YIELD

1.4 ±10% kg/m² per mm of thickness.

On *Diathonite* plasters: 4.2 ±10% kg/m² per 3 mm of thickness.

COLOUR

White.

APPLICATION FIELDS

The product is suitable both inside and outside for the finish of:

- products of *Diathonite* plasters;
- waterproofing products such as *WATstop* (see technical data sheet);
- taverns, garages, farmhouses, halls, etc.;
- old and new plasters;
- walls and ceilings;
- cement or lime based substrates.

The product is designed to obtain a finish like “civil finish”, with a sponge float.

Argacem HP can be used on any kind of substrate whose nature (water absorption, roughness, homogeneity, cracks) does not allow the direct application of a finishing coat.

Thanks to its high breathability and to its antibacterial properties, it avoids mould formation caused by humidity, guaranteeing a healthy environment and a high living comfort. *Argacem HP* is a natural compound and it is suitable wherever eco-friendly materials are required.



Diasen srl

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EN 998-1

Specifications for mortars for masonry - Part 1: Mortar for internal and external plaster

Thermal conductivity:	≤ 0,2 W/mK (T2 Category)
Bulk density:	1120 ±10% kg/m ³
Compressive strength:	3.50 N/mm ² CS IV
Fire reaction:	A1 class
Capillary water absorption:	category W0
Vapour permeability coefficient:	μ≤15
Durability (freeze- thaw):	evaluation based on valid arrangements where the mortar will be used.



For application video, product page, safety data sheet and other information.

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Technical data		
Features		Unit
Yield	1.4 ±10% kg/m ² per mm of thickness. On <i>Diathonite</i> plasters: 4.2 ±10% kg/m ² per 3 mm of thickness.	kg/m ²
Aspect	Premixed powder	-
Colour	white	-
Density	1120 ± 10%	kg/m ³
Grain size	0 – 0.6	mm
W/c ration	0.26 – 0.28 l/kg 6,5 - 7 L per bag (25 kg)	l/kg
Application temperature	+5 /+30 41/86	°C °F
Mixture idle time	5	minutes
Initial setting time	60	minutes
Drying time (T=20°C/68°F; R.H. 40%)	5 - 7	days
Storage	12 months in original package and dry place	months
Packaging	25 kg paper bag	kg

Final performances		Unit	Regulation	Result
Water vapour coefficient	μ≤15	-	EN 1015-19	-
Capillary water absorption coefficient(C _m)	categoryW0	-	EN 1015-18	category W0
Apparent mass density of fresh mortar	1150 ± 10%	kg/m ³	-	-
Apparent mass density of hardened mortar	1350 ± 10%	kg/m ³	-	-
Average compressive strength at 28 days	≥ 3.50	N/mm ²	EN 1015-11 EN 1504-3	class CS IV class R2
Fire reaction	class A1	-	EN 13501-1	-
Thermal conductivity (λ)	≤ 0.2	W/mK	EN 12667	Category T2

* The above data, even if carried out according to regulated tests are indicative and they may change when specific site conditions vary.

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PACKAGING

25 kg paper bag.
Pallet: 56 bags (1400 kg).

STORAGE

Store the product in its original containers in well ventilated areas, away from sunlight, water and frost, at temperatures higher than +5°C (41°F).
Storage time: 12 months

PREPARATION OF SUPPORT

The substrate must be perfectly hardened, dry and resistant enough. The surface must be thoroughly clean, well consolidated and without debris or detaching parts.

Before the product application, it is recommended to cover doorsteps, infix and each element that will not be coated with the plaster.

Diathonite plasters or new plasters

It does not need primer, the application can directly be performed on the support, previously wet.

Old plaster

Make sure that the plaster is resistant and well bonded to the support, otherwise partially or totally remove it and re-apply it.

In case of painted plasters, according to the wide range of paints on the market, it is recommended to perform an adhesion test to verify the suitability of the application or the need to use the primer *Aquabond* (see technical data sheet).

On rough plaster, it is generally possible to directly apply *Argacem HP*.

Concrete

Restore damaged and crumbly concrete with *Rebuild⁴⁰ R4* (see technical data sheet).

Treat iron bars with *Anticorrosive 2K* (see technical data sheet).

MIXING

According to the water absorption degree of the support and to environmental conditions, it is recommended to dose the right amount of water that is necessary to obtain the correct adhesion. The specified water amount is indicative.

- Add about 26% - 28% of water, about 6.5 – 7 litres per bag of *Argacem HP* (25 kg). Mix with drill mixer or automatic 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. Use clean water.

APPLICATION

Application by hand

1. It is **FUNDAMENTAL** to wet the support, in particular during summer season and on masonry exposed to the sun. If the surface was treated with a primer, there is no need to wet the support.
2. Apply *Argacem HP* by steel spatula with rounded edges in two crossed coats, until reaching an indicative thickness of 1.0 – 1.5 mm per layer.
3. The first coat has the function of filling substrate porosity.
4. The second layer must be applied when the previous one is compact to the touch (after about 12/24 hours at 20°C / 68°F and 40% relative humidity), until reaching the expected thickness.
5. Wet the smoother before the application of the second layer.
6. When the applied smoothing layer is still moist, finish with a sponge or plastic trowel, according to what type of smoothing is to be realised.

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Application by plastering machine

Argacem HP can be applied by plastering pump. The setting can change according to the chosen machine.

1. It is **FUNDAMENTAL** to wet the support, in particular during summer season and on masonry exposed to the sun. If the surface was treated with a primer, there is no need to wet the support.
2. Load the bags content inside the hopper and adjust the flow-meter of the machine.
3. Apply *Argacem HP* in two crossed coats until reaching an indicative thickness of about 1.0 – 1.5 mm per layer.
4. The second layer must be applied when the previous one is compact to the touch (after about 12/24 hours at 20°C / 68°F and 40% relative humidity), until reaching the expected thickness.
5. Wet the smoother before the application of the second layer.
6. When the applied smoothing layer is still moist, finish with a sponge or plastic trowel, according to what type of smoothing is to be realised.

DRYING TIME

At a temperature of 20°C/68°F and 40% relative humidity, the product dries in 5 - 7 days.

- Drying time is influenced by environmental relative humidity and by temperature and it may significantly change.
- Temperature lower than + 5°C/ 41°F and higher than +30°C/ 86°F in the following 24 hours can change the drying time and alter mechanical performances of the smoother.

For outdoor applications:

- Protect the product for 48 hours from rain, frost and extreme evaporation.
- In case of high temperature, direct sunlight, or strong wind, it is necessary to wet the smoother 2/3 times per day for the first 2/3 days after the application.
- *Argacem HP* must be protected from weathering agents with breathable and transparent finish (*Diathonite Cork Render, Acrilid Protect Coating*).

Indoor applications:

- Ventilate the room during the product application and drying.
- *Argacem HP* can be painted with *Diathonite Cork Render, C.W.C. Stop Condense or Limepaint*.

SUGGESTIONS

- Do not apply at environmental temperature and at support temperature lower than +5°C (+41°F) and higher than +30°C (+86°F).
- If *Argacem HP* is used as finishing of *Diathonite*, perform the application at least 15 days after the application of the last layer of the plaster.
- Do not apply over painted substrates or treated with waterproofing, over gypsum or scagliola-gypsum, on wood, metal or plastic supports.
- If applied on panels, it is recommended to use the specific smoother *Argacem CP* (see technical data sheet).
- If applied indoor, it is necessary that the external surface will not absorb water. Otherwise, treat the surface with *BKK* or *BKK Eco*.

For outdoor applications:

- During summers season apply the product in the cooler hours of the day, away from sun.
- Do not apply with imminent threat of rain or ice, in conditions of strong fog or with relative humidity higher than 70%.
- If left exposed, apply a breathable transparent and water-repellent siloxane such as *BKK* or *BKK eco*.

CLEANING

Wash tools with water before the product hardens.

SAFETY

While handling, always respect the instructions described in safety data sheet. Always use protective gloves and anti-dust mask.

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