



ArgilFibra

argiles\colades
LA BISBAL D'EMPORDÀ

CLAY MATERIALS FOR
BIOCONSTRUCTION

CATALOGUE 2022

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BREATHABLE AND WATER VAPOUR PERMEABLE



HUMIDITY REGULATOR



ABSORPTION OF ODOURS AND NOISE



LOW THERMAL CONDUCTIVITY



EASY HANDLING



ARGILFIBRA is our most established product, made using local clay as the main element.

Clay, combined with aggregates and fiber, allows us to create protective, structural or decorative layers, being the material with the highest hygroscopic performance known for construction. It has the enormous capacity to absorb and release water, thus regulating the environmental humidity of our environment. Also, a clay plaster provides thermal inertia, allows heat to accumulate, helping to keep spaces warm in winter and cool in summer. The earth is also the best protection against all types of electromagnetic radiation and energy systems harmful to humans.

ARGILES COLADES, S.A. sells clay directly from the quarry and, thanks to the selection of mills, we have different micronized clays, which can be used as pigments or primers, among other uses in bioconstruction, restoration and fine arts.

MORTARS

ArgilFibra




**BASE + FIBRE
GRANITIC**

 20 kg
 1000 kg



**2nd layer
GRANITIC**

 20 kg
 1000 kg





**BASE + FIBRE
CALCARI**

 20 kg
 1000 kg



**2nd layer
CALCARI**

 20 kg
 1000 kg

EFFICIENCY

		THICKNESS		
	KG	3 mm	5 mm	10 mm
*aprox	1 kg	0,16 m ² *	0,1 m ² *	0,05 m ² *
1 sac	20 kg	3 m ²	2 m ²	1 m ²
2 sacs	40 kg	6 m ²	4 m ²	2 m ²
5 sacs	100 kg	15 m ²	10 m ²	5 m ²
10 sacs	200 kg	30 m ²	20 m ²	10 m ²
20 sacs	400 kg	65 m ²	40 m ²	20 m ²
30 sacs	600 kg	100 m ²	60 m ²	30 m ²
40 sacs	800 kg	130 m ²	80 m ²	40 m ²
1 big bag	1000 kg	150 m ²	95 - 100 m ²	45 - 50 m ²
2 big bag	2000 kg	330 m ²	190 - 200 m ²	90 - 100 m ²
3 big bag	3000 kg	500 m ²	290 - 300 m ²	140 - 150 m ²
4 big bag	4000 kg	650 m ²	390 - 400 m ²	190 - 200 m ²
5 big bag	5000 kg	800 m ²	490 - 500 m ²	240 - 250 m ²

ARGILFIBRA MORTAR *BASE+FIBRE*

ArgilFibra

1 DESCRIPTION

Clay and fibre-based mortar for use in continuous cladding. Once the material has been applied and dried on the wall, it is permeable to water vapour and has the properties of regulating the humidity in the room and has low thermal conductivity.

2 SUPPORT

Application on porous supports, ceramics, wood, plaster or cement. For less porous supports apply an adhesion mortar such as a lime grout. Supports must always be free of dust and parts susceptible of looseness.

3 PREPARATION

Handmade: add 20-23% water. It is advisable to insist on shaking and kneading the product in order to have an uniform moistening of the mortar.

By machine: add 20% water.

If water is lost during the application of the product, it can be watered and kneaded again.

4 APPLICATION

Apply to a thickness of 10 mm. Apply with a sponge to smooth.

5 EFFICENCY

The approximate consumption of Argilfibra is 20Kg/m² per 10mm thickness. Deficiencies in flatness and type of finish may alter its efficiency.

6 PRESENTATION

 20 kg

 1000 kg



CARACTERÍSTIQUES TÈCNIQUES

Características tècniques / Caractéristiques techniques / Technical characteristics

DENSITAT APARENT	<i>Densidad aparente</i>	<i>Densité apparente</i>	<i>Apparent density</i>	890 Kg/m ³
DENSITAT APARENT DE MORTER	<i>Densidad aparente de mortero</i>	<i>Densité apparente du mortier</i>	<i>Mortar apparent density</i>	1700 Kg/m ³
RENDIMENT	<i>Rendimiento</i>	<i>Rendement</i>	<i>Efficiency</i>	1,5 Kg/m ² x mm
RESISTÈNCIA A LA COMPRESIÓ	<i>Resistencia a la compresión</i>	<i>Résistance à la compression</i>	<i>Compression resistance</i>	1,39N/mm ²
RESISTÈNCIA A L'ADHESIÓ	<i>Resistencia a la adhesión</i>	<i>Résistance à l'adhésion</i>	<i>Adhesion resistance</i>	0,10N/mm ²
CONDUCTIVITAT TÈRMICA	<i>Conductividad térmica</i>	<i>Conductivité thermique</i>	<i>Thermal conductivity</i>	0,15m ² K/W
ABSORCIÓ DE VAPOR D'AIGUA	<i>Absorción de vapor de agua</i>	<i>Absorption de vapeur d'eau</i>	<i>Water vapor absorption</i>	95g /m ² x cm



ARGILFIBRA MORTAR 2nd layer

ArgilFibra

1 DESCRIPTION

Mortar 2nd layer of clay for smoothing and regulating continuous cladding. Once the material has been applied and dried on the wall, it is permeable to water vapour and has the properties of regulating the humidity in the room and has low thermal conductivity.

2 SUPPORT

Application on Argilfibra Base + Fibre

3 PREPARATION

Handmade: add 20-23% water. It is advisable to insist on shaking and kneading the product in order to have an uniform moistening of the mortar.

By machine: add 20% water.

If water is lost during the application of the product, it can be watered and kneaded again.

4 APPLICATION

Apply to a thickness of 3 mm. Apply with sponge to smooth.

5 RENDIMENT

The approximate consumption of Argilfibra 2nd layer is 10Kg/m² per 5 mm thickness. Deficiencies in flatness and type of finish may alter its efficiency.

6 PRESENTATION

 20 kg

 1000 kg



CARACTERÍSTIQUES TÈCNIQUES

Características tècniques / Caractéristiques techniques / Technical characteristics

DENSITAT APARENT	Densidad aparente	Densité apparente	Apparent density	890 Kg/m ³
DENSITAT APARENT DE MORTER	Densidad aparente de mortero	Densité apparente du mortier	Mortar apparent density	1700 Kg/m ³
RENDIMENT	Rendimiento	Rendement	Efficiency	1,5 Kg/m ² x mm
RESISTÈNCIA A LA COMPRESIÓ	Resistencia a la compresión	Résistance à la compression	Compression resistance	1,39N/mm ²
RESISTÈNCIA A L'ADHESIÓ	Resistencia a la adhesión	Résistance à l'adhésion	Adhesion resistance	0,10N/mm ²
CONDUCTIVITAT TÈRMICA	Conductividad térmica	Conductivité thermique	Thermal conductivity	0,15m ² K/W
ABSORCIÓ DE VAPOR D'AIGUA	Absorción de vapor de agua	Absorption de vapeur d'eau	Water vapor absorption	95g /m ² x cm





SPAIN'S EARTH HOUSE. 3D PRINTING ARCHITECTURE

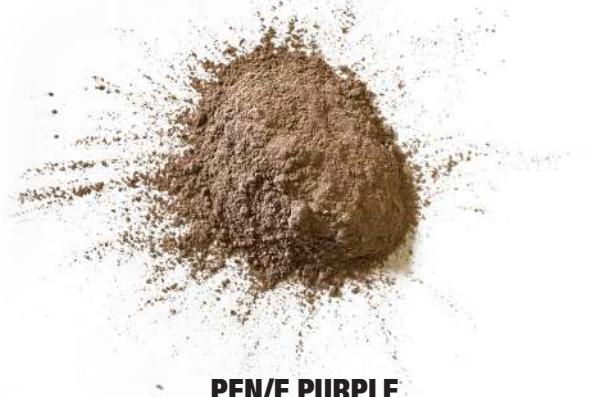
MICRONISED CLAYS

Clays of different colors, dried, crushed and homogenized.
Granulometry from 0 to 0,2 mm.





PEN/F BEIGE

 20 kg
 1000 kg





PEN/F PURPLE

 20 kg
 1000 kg





PEN/F RED

 20 kg
 1000 kg





UKA WHITE

 25 kg
 1000 kg



PEN/F KAOLIN B MD-25

 20 kg
 1000 kg



PEN/F GREY

 20 kg
 1000 kg



ORÍGENS
escola taller de
bioconstrucció



FINISHES


COM-CAL
PINTURA ECOLÓGICA DE CAL

COM-CAL ecological lime paint is environmentally friendly, both in its mineral composition and in its manufacturing process. It is suitable for all types of interiors, as well as for restoration and bio-construction works.

OTHER BIO-CONSTRUCTION MATERIALS





MICRONISED BASALT

 20 kg
 1000 kg



MICRONISED KAOLIN

 20 kg
 1200 kg





HYDRAULIC LIME MORTAR NATURAL NHL 3,5 NATURAL NHL 5

 23 kg



CERAMIC CHAMOTTE

0-1 mm
 0-2 mm
 0-4 mm

 20 kg
 1 tm



WHITE LIME PUTTY CL-90 PASTE

 20 kg



CARVED FIBRE 2 -4 cm



REFRACTORY CHAMOTTE

0-1 mm
 1-3 mm

 25 kg



MARBLE POWDER

MR-200
 MR-500
 MR-1000

 25 kg



COLORING OXIDES

YELLOW IRON
 RED IRON
 MANGANESE

 25 kg

**MARBLE POWDER
NEGRO EBANO
0-0,7 mm**

 25 kg

**MARBLE POWDER
GIALLO ORO
0-0,7 mm**

 25 kg

**MARBLE POWDER
ROSSO VERONA
0-0,7 mm**

 25 kg


**MARBLE POWDER
VERDE ALPI
0-0,7 mm**

 25 kg

LIME PAINT

 10 l.

NATURAL WAX

 500 gr

CELLULOSE FIBRE

 12,5 kg

MICA

 5 kg

 20 kg

METAKAOLIN

 25 kg

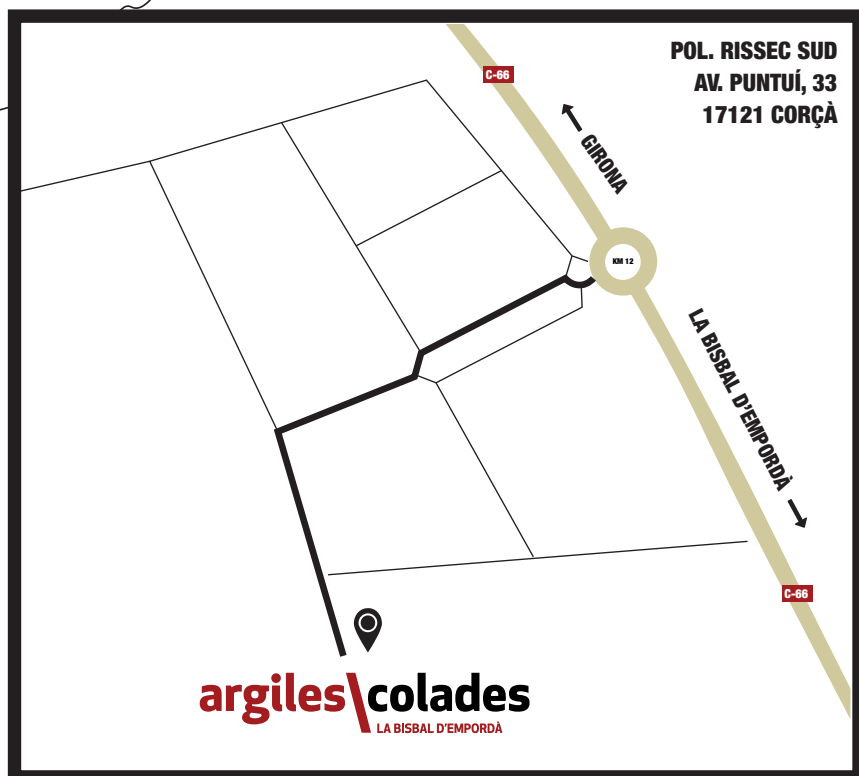
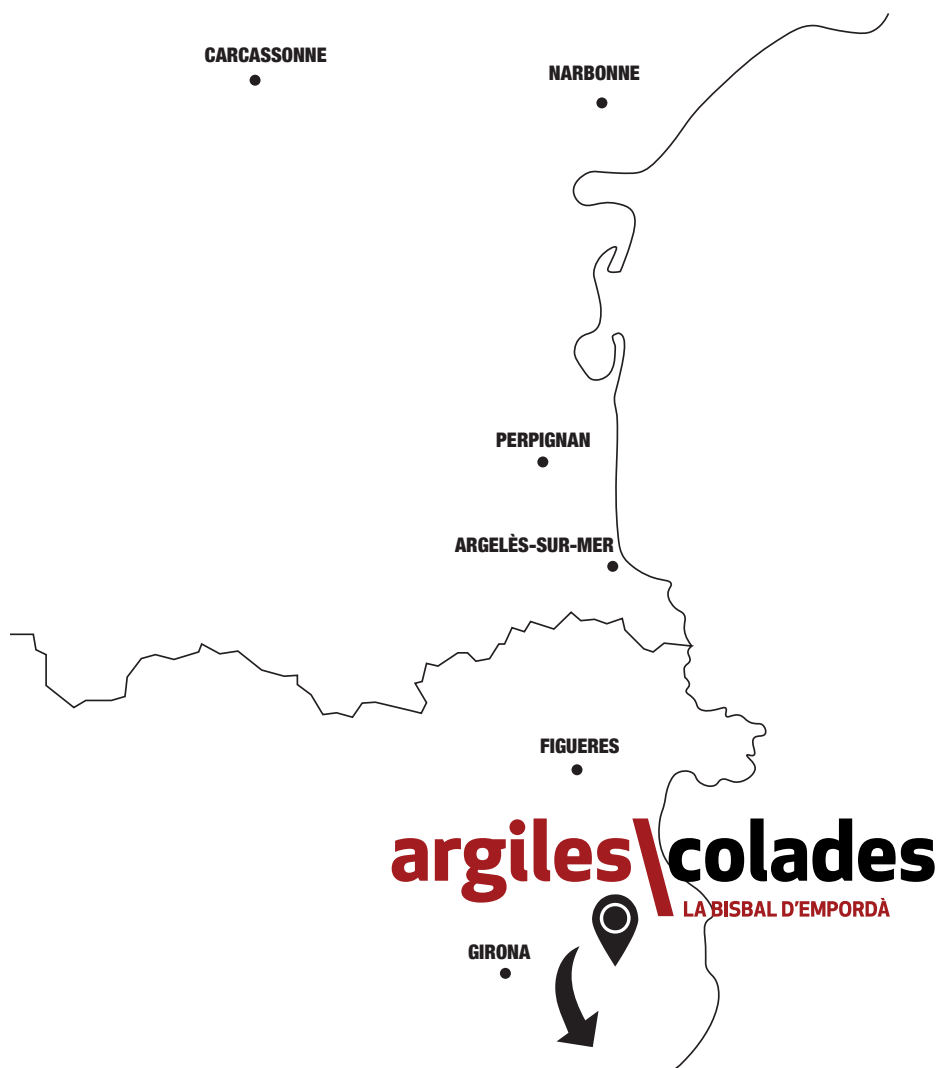


THREE MOUNTAINS. ONA TREPAT I RUBIROLA

RAW CLAY

Beige clay directly from the quarry. Dried and not ground.
Granulometry from 0 to 200 mm.





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