



Effix Design[®] technical sheet

Creative mortar

This special mortar can meet the whims of designers.

Application field

Effix Design is a very high performance mortar used for non-structural elements, moldings and decorative parts.

Chemical composition of the mortar

Effix Design is a ready to use mortar. It contains all pre-mixed powders, sand, fibers and admixtures necessary for its preparation. The fibers used are alkali-resistant glass fibers.

Physical Characteristics

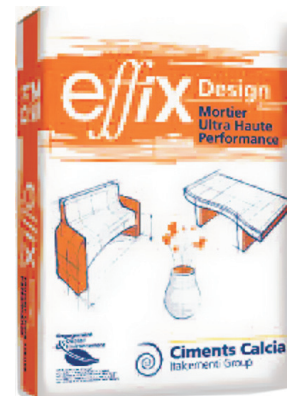
Mixing it with mixing water, you obtain a very fluid off-white mortar.



Coffee table "Crop Circles" of Jean-Eudes Massiou. Photo: Jean-Eudes Massiou

Fresh mortar density	2,340 kg/m ³
Particle size	0 - 500 μm

MECHANICAL PROPERTIES (Average values from 4x4x16 cm specimens, water-cured at 20°C)		
	Compressive strength at 20°C	Bending strength a7 20°C
After 1 day	≥ 60 MPa	≥ 6 MPa
After 7 days	≥ 90 MPa	≥ 7 MPa
After 28 days	≥ 100 MPa	≥ 9 MPa



Pallet weight: 1.5 tons (60 bags of 25 kg each)

- **Effix Design** can be heat-treated after setting. This treatment, which speeds up the material curing process, consists in storing the elements produced at a temperature gradually increasing to 60 - 90°C for 48 - 72 hours. The heat treatment contributes to the development of material strength and durability and gives Effix Design high dimensional stability.
- **Effix Design** can be easily colored. To obtain long-lasting colors use mineral pigments.
- Packaging: **Effix Design** is available in 25 kg bags.

Use and application

- With a 25 kg bag of Effix Design mixed with 2.75 liters of water you obtain about 12 liters of mortar.
- To prepare the mix with a mortar or concrete mixer follow the instructions below ⁽¹⁾⁽²⁾:
 - 1 - Pour into the mixer the number of bags necessary for the mixture
 - 2 - Mix for 30 seconds
 - 3 - Add 2.75 liters of water for each bag used
 - 4 - Mix for 2 minutes (calculated from mix fluidization)
 - 5 - Stop the mixer and scrape the walls
 - 6 - Mix for 2 minutes

(1) For the mixer, the recommended volume of Effix Design mix is equal to half the mixer max capacity.

(2) The processing time of Effix Design depends on the type of mixer used. In a traditional concrete mixer, adjusting the depth of the batching blades may be necessary to help obtain a homogeneous mix.

- Pour the mixture immediately into the mold or formwork. Continue pouring in the same point without interrupting the cast to avoid entraining air bubbles.
- **Effix Design** has been designed for the production of non-structural works, decorative elements, interior furnishings and moldings. It can be used for several applications: working surface, bathroom furnishings, baths, tiles etc.
- Its formulation with fine elements allows obtaining perfectly smooth and uniform surfaces and excellent reproduction of the shape of the molds used.



Instructions for the use

- Work at a temperature between 5 and 25°C. Depending on ambient temperature the application time can be different:
 - 5°C: < 90 minutes
 - 20°C: < 45 minutes
 - 30°C: < 5 minutes
- In hot weather, store the bags at a temperature below the ambient air and mix with fresh water to extend the workability time.
- Make sure that all joints of framework elements are tight and if not, apply silicone to fill the holes.
- All surfaces in contact with **Effix Design** should be clean and coated with a thin layer of demolding oil of top quality. Use proper brushes for oil application.
- Use effective protection against drying, especially when producing thin elements with a high exposed surface area/volume» ratio: use plastic sheet after long water curing.
- Protect from frost, wind and sun during setting and hardening.
- Demold after 18 - 24 hours.
- After demolding the elements should be kept moist (or held in water) at 20°C, for at least 7 days.
- Do not store in a dry, hot and ventilated place during the first days.
- Provide a sizing calculation for large elements or parts subject to heavy loads.
- Provide a proper product for surface protection.