



Technical Data Sheet

i.design EFFIX ARCA

Field of application

i.design EFFIX ARCA is dedicated to the production of panels for wall cladding (solution under "Avis Technique" 2.2 / 13-1566_V1) .

Mortar composition

Dry mixture of premix cement base and organic fibres (PVA).

Characteristics of i.design EFFIX ARCA

Colour	White
Fibre type	Organic
Water/premix ratio	0.12
Fibre specific quantity	1% of total premix weight (1.5% in volume)

Characteristics of fresh material

Slump	Self-locking
Spreading at ASTM mini cone at 20°C when blending is finished	260 to 360 mm
Workability is maintained for 30 minutes if the material is kept between 5°C and 20°C	

Characteristics of hardened material

Mixing with water yields a very flowable ivory mortar.

Density (NF EN 12350-6)	2270 ± 100 kg/m ³
BS after 28 days (NF EN 196-1)	> 10 MPa
CS after 28 days (NF EN 196-1)	> 115 MPa
Elastic modulus at 28 d*	> 38 GPa
Shrinkage (NF P 15-433)	about 1 mm/m
Frost/thaw resistance (NF P 18-425)	Compliant
Scaling strength (XP P18-420)	Compliant

* according to the protocol of the 'Bulletin of the Civil Engineering Laboratory No. 22 – NT 4263, p. 79-81 on cylindrical specimens 16x32 cm stored in demoulding water for 28 days.



Mortar design

- Weight and pour the right quantity of premix into the stationary mixer.
- Add mineral pigments if necessary.
- Start the mixer and blend during 5 minutes.
- Introduce the water.
- Blend during 5 minutes (depending on the mixer power).
- Introduce the fibres. Check the blend to avoid the heaps.
- Fibres must be blended evenly for 10 minutes (depending on the mixer power).
- Wait until the air is removed (to be adapted to the thickness of the panels). Consider a degassing time.
- Work between 5°C and 20°C.

Vertical casting

In case of vertical casting, if sweating appears, use COLLAXIM RT (Sika's product) to avoid the problem (0.06% of the premix weight). Add COLLAXIM RT to the water.

Cure

- Apply a cure product immediately after applying to the visible part.
- After demoulding, the product must be stored in a humid environment or immersed in the water at 20°C for at least 7 days. Avoid storing the products in a dry, hot and/or ventilated place for a long time.

Facing

Thanks to the fluidity of i.design EFFIX ARCA, all mould textures can be used and a large colour chart can be obtained using pigments i.

For professional use only. The user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application..

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