GYPSUM.

CEMENTORAW®
Technical data sheet

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Licensee: GYPSUM s.r.l.
Manufacturer: GYPSUM s.r.l.

The material

High performance product, made with a mixture of cement, selected aggregates and specific additives. It can be reinforced during the production phase, with glass fibre net and/or special steel fibres and can be moulded into any shape.
Cementoraw ® has a class A1 fire resistance.

The product

Cementoraw ® is a new and advanced high-performance washable cement, colored with iron oxide paste with which we can make products with a rough, highly textured surface finish. The colour bonds with the concrete in an organic relationship, dispelling the traditional perception of a raw material and giving it a refined dimension.
Cementoraw ® is a material for architecture and design, whose chemical composition, together with the surface treatments applied during production, makes the cement resistant to dirt and is washable (promptly) even in the case of stains generated by liquids (water, coffee, oil, wine, Coca Cola, lemon, etc.). Its characteristics make this material particularly tough, almost waterproof, resistant to abrasion, freeze/thaw cycles, saltiness, and chemical attacks (including acid substances). IMPORTANT NOTE: the particularly rough surface of this material may make cleaning with cloths or sponges difficult. Therefore, depending on the specific situation, it is recommended to use a stiff-bristle brush, a pressure washer, or a single-brush floor machine.

Cementoraw ® is suitable for the home and contract market, for indoor and outdoor applications, as well as for architecture and industrial design. It is worked by pouring it into molds to form elements of any shape.
It is particularly suitable for the production of floor and wall cladding, lamps, tables, benches, vases, objects, and more.
The processing phase involves accurate dosing of raw materials, additives and coloring substances, guaranteed by precision equipment; however, the coloring shows a pleasant dyschromia between products of the same color: this is a peculiar characteristic of the cement as a natural material.
This material ensures faithful reproduction of any geometry, making it possible to create any object.
The material can be reinforced during the production phase with a glass fibre net and/or special steel fibres. The choice regarding the thickness of the final product (minimum 10 mm), the actual need for reinforcement and which type to use is based on our experience, as a function of the artefacts' shape, size and destination of use. Iron reinforcement is strictly avoided to prevent any problems associated with its use.

The project

GYPSUM works alongside architects and designers to give the best technical support during the design phase, assessing the customer's request to provide the right construction suggestions for the artefacts, the possibility of splitting it into parts and the correct implementation.
Our technical staff will support the designer through 2D and/or 3D CAD drawings, as well as through physical samples.
Whether it is a single piece or a series production, we are able to guarantee a constant and high quality standard of the product.

Technical features

The materials used during production are the result of lengthy research. For this reason every raw material and every additive are carefully chosen and purchased only from suppliers who can guarantee to supply consistent-quality materials.

Apparent density	UNI EN 14617-1	1844 kg/mc
Flexural strength (bending)	UNI EN 14617-2	R_{tf}=8.64 N/mm2 (thickness 16 mm)
Abrasion resistance	UNI EN 14617-4	26 mm
Impact resistance	UNI EN 14617-9	W = 1.716 J (thickness 16 mm)
Freeze/thaw resistance	UNI EN 14617-5	KM_{f25} = 111 (after 25 cycles)
Thermal shock resistance	UNI EN 14617-6	$\Delta m\%$ = 0% $\Delta R_{f,20\%}$ = -7.6%*
Linear thermal expansion	UNI EN 10545-8	12.8 [10^{-6}/°C]
Chemical resistance	UNI EN 14617-10	resistant
Resistance to aging by salt mist	UNI EN ISO 14147	intact (after 60 cycles)

*(the negative sign indicates an increase in performance)

Use instructions

The products should be kept in a covered place, should be handled with care and should be laid shortly after being removed from the packaging.
A site check is necessary to verify that the conditions in place are suitable for the product's use, also taking into consideration the sector tolerances that affect production.

Note

We are at your disposal for any further information.
GYPSUM reserves the right to modify the content of this sheet without notice.

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