

DESCRIPTION

ULTRA MORTAR is a mortar composed of cement Portland, specially selected aggregates and chemical additives in order to achieve very high early and final strength.

ULTRA MORTAR is a material classed UHPC (Ultra High Performance Concrete), that have very high performance in terms of mechanical strength and durability.

USES

ULTRA MORTAR has been developed to produce concrete tiles and slabs with high performance requirements.

ULTRA MORTAR is used to produce street furniture and other decorative elements.

It is necessary to add fibres to the mortar. The type of fibre and the quantity depends on the final use of the product.

OPERATING INSTRUCTIONS

Mixing water: Add 2.5 litres of water for each 25 kg bag. We advise to use cold or very cold water.

Mixing: Add in a planetary mixer the material. Add the water slowly but shaking it. Mix for 5 or 10 minutes, depending on the mixer, until the mass is homogeneous and without lumps, with a dough-like consistency.

Once the mass has the consistency desired, add PVA fibre, glass fibre or metallic fibre.

Special precautions:

Do not add water during the mixing.
Use cold or very cold water.

SAFETY MEASURES

The mortar contains cement and direct and prolonged contact with it may cause skin, eye, nose and throat irritation. This risk can be reduced using the established safety equipment to handle the mortar: goggles, masks and gloves. In case of contact, rinse with water.

TECHNICAL DATA

| | |
|--|-------------|
| Mixing water | 10 % |
| Density while fresh | 2.20 Kg./L. |
| Compressive strenght 24 hours (without reinforcement) | ≥60 MPa |
| Compressive strenght 7 days (without reinforcement) | ≥100 MPa |
| Compressive strenght 28 days (without reinforcement) | ≥130 MPa |
| Compressive strenght 28 days (with glass fibers reinforcement) | 130-150 MPa |
| Compressive strenght 28 days (with metallic fibers reinforcement) | 150-180 MPa |
| Shrinkage | ≤2 mm./m. |