

# FIBER-REINFORCED CONCRETE



## DESCRIPTION

The Fiber-Reinforced Concrete is made of cement, high quality aggregates and last generation additives. These components guarantee a good performance fulfilling the requirements of the client. This type of concrete is designed for elements subjected to tensile and flexural strengths such as slabs where it is required to know the modulus of rupture.

## TECHNICAL SPECIFICATIONS

- Maximum size of the aggregate: 25 mm.
- Nominal maximum size of the aggregate: 19 mm.
- Compressive strength: 175 kg/cm<sup>2</sup> - 350 kg/cm<sup>2</sup>.
- Flexural strength: 30 kg/cm<sup>2</sup> - 45 kg/cm<sup>2</sup>
- Pozzolana hydraulic cement (MPa type)

## USES

The Fiber-Reinforced Concrete has been designed to be used in different activities of concrete casting for floor slabs in industrial buildings such as warehouses, factories, walk-in coolers and freezers; also slabs in gyms, stadiums, among others.

## PLACEMENT

- Direct discharge
- Pumping discharge

## ADVANTAGES

- Eco-friendly concrete.
- Specialized advising in the concrete technology.
- Strict quality control.
- High quality materials.
- Automatic dosing system.
- Economic benefit as the placement of reinforcing steel is not required.
- The possible corrosion in the reinforcing steel is avoided.

## PROPERTIES

Mix concrete component materials comply with all the corresponding regulations.

- MP/A cement complies with the 479:2015 Technical Regulations of Hydraulic Cement (RTCR, acronym in Spanish).
- River aggregates comply with the ASTM C33 International Regulation.
- Plasticizers and retarding admixtures satisfy the ASTM C94 International Regulations.
- Clean water complies with the requirements of the ASTM C94 International Regulations.

## QUALITY CONTROL

The development and research laboratory of AMCO has technicians certified by the ACI (American Concrete Institute). Therefore, different tests are executed correctly guaranteeing reliable results.

Daily, random samples are taken from the different types of concrete and cylindrical compression and beam flexural tests are conducted for internal control. Monitoring and quality control of the concrete is maintained to provide the customer with the desired product.

## SUGGESTIONS

AMCO guarantees the delivery of 25 mm concrete in ideal conditions. It reaches compressive strength at 28 days old. Do not alter the product with water or any other substance.

The maximum concrete unloading time is one hour since it arrives at the place. For this reason, the client should plan the correct logistic to meet this requirement.



Awarded by the Bandera Azul Ecológica program for our efforts in environmental impact reduction.

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