

# SELF-COMPACTING CONCRETE



## DESCRIPTION

The Self-Compacting 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 has the ability to flow and consolidate under its own weight reaching all the empty spaces in the area, showing excellent finishes.

## TECHNICAL SPECIFICATIONS

- Maximum size of the aggregate: 12.5 mm.
- Nominal maximum size of the aggregate: 9.5 mm.
- Slump: 600 mm.
- Compressive strength: 210 kg/cm<sup>2</sup> - 450 kg/cm<sup>2</sup>.
- Density: 2280 kg/m<sup>3</sup>.
- Temperature: 84° F.
- Volume of air content: 1.5%.
- Initial setting time: 4 hours.
- Final setting time: 8 hours.
- Pozzolana hydraulic cement (MP/A type).

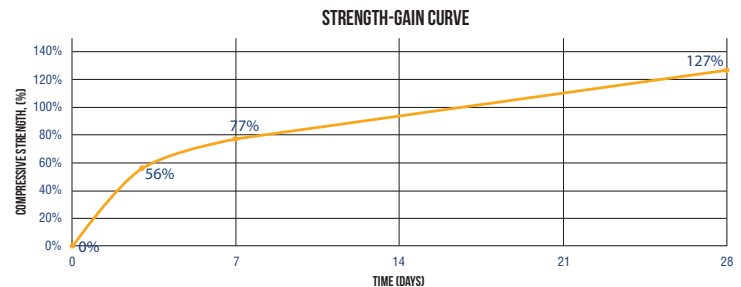
## USES

In general, the Self-Compacting Concrete has been designed to be used in different elements of construction. It is used in structural elements with small dimensions, in addition to high densities of steel reinforcements and/or slender shapes where any architectural finish is required. For example: walls, beams, columns, among others.

## ADVANTAGES

- Eco-friendly concrete.
- Specialized advising in the concrete technology.
- Strict quality control.
- High quality materials.
- Automatic dosing system.
- Placement in spaces with high densities of steel.
- Placement in structural elements with small dimensions.

## CONCRETE COMPRESSIVE STRENGTH VARIATION WITH TIME



## 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

## 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.

## PLACEMENT

- Direct discharge
- Pumping discharge

## SUGGESTIONS

AMCO guarantees the delivery of 12 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.

 **2509-9800**



E-mail: [ventas@amco.co.cr](mailto:ventas@amco.co.cr) / [www.amcocr.com](http://www.amcocr.com)