



MICRO-CONCRETOS

CRC® Autocompactable

Self-consolidating core-fill grout

Description

CRC® Autocompactable is a self-consolidating, polymer modified grout with controlled particle size distribution and last generation plasticizers, designed for filling concrete block and brick cores, in interior and exterior applications, above or below grade.

Uses

- Blocks with cores 6 cm x 6 cm or larger.
- Masonry walls.
- Walls subject to heavy lateral loads of soil or wind.
- Above and below grade.
- Exterior and interior applications.
- For reinforced or non-reinforced masonry.

Features

- Very fluid and self-leveling consistency allows filling up the available space inside the cores without the need to vibrate.
- Ideal for placing with a pump, for higher efficiency.
- Prevents unwanted consequences due to bad consolidation. A well compacted and void-free concrete is achieved.
- Controlled and constant quality.
- Balanced particle size distribution of the aggregate prevents segregation during installation.
- For stronger and more structurally sound masonry walls.
- Reduces material waste and increases cleanliness in the job area.
- Improves productivity by speeding up product installation.
- Simplifies cost estimation.
- Provides more well-being by requiring less physical effort.
- Excellent combination between resistance, workability and economy.
- Easy to prepare, just add water.
- Long-lasting, does not contain salts.
- Complies with ASTM C 476-10 and INTE 06-03-03: 2011.



CRC® Autocompactable

MRc5 Regional materials:	Up to 2 points
IEQc4.1 Low-emitting materials:	1 point
MRc2 Construction waste management:	Up to 2 points

Using this product may contribute to LEED certification of projects.
Request INTACO LEED sheet for more details.

Installation

Surface preparation:

The surface that will be in contact with CRC® Autocompactable must be clean. Eliminate mortar projections or obstructions inside the cores to ensure that the grout will be able to flow and fill the space. Make sure surface temperature is 30 °C or lower and that blocks are dry at the time of filling the cores. Open up a window below (clean-out) in the bottom layer of the blocks to be filled, to take out debris of the mortar used to install the blocks and to make sure grout fills all the way to the bottom. Masonry should be hard and firm enough to withstand the pressure of the grout.

Mixing:

Hand mixing: Add CRC® Autocompactable to clean water according to the table in Technical Data. Mix for at least 5 minutes to a plastic and homogeneous consistency. Do not add more water or dry materials after initial mixing.

Machine mixing: Adjust the water in the flow indicator of the mixer pump, to guarantee a plastic and homogeneous mortar (see table in Technical Data).

Application:

Prior to use, a slump flow test must be performed in accordance with ASTM C 1611. For the grout to maintain self-consolidating properties, the diameter must be between 610 mm y 760 mm. Pour CRC® Autocompactable inside all block cores that will have rebar and additionally any other cores that are specified to be filled in the masonry design. Do not let the grout drop a height larger than 1,80 m. When pumping with a machine, place the nozzle inside the cores of the last layer of blocks that were placed, so that the grout falls inside.

Clean-up:

Clean all tools with soapy water before mortar dries.

Packaging

Costa Rica / Ecuador / Nicaragua / Panama	
Packaging	40 kg bag
Color	Gray

Coverage

Block dimensions (cm x cm x cm)	Amount of cores filled vertically per 40 kg bag
12 x 19 x 39	8 – 9
15 x 19 x 39	6 – 7
19 x 19 x 40	4 – 5

Volume of mix required	Amount of 40 kg bags
1 m ³	48

One bag of 40 kg produces approximately 21 liters of mortar. Tests on site should be made for a more accurate estimation. Make sure to block all possible escapes to prevent grout from leaking out of the cores that want to be filled.

Technical Data

Complies with ASTM C 476-10 and INTE 06-03-03: 2011.

Water dosage	Costa Rica / Nicaragua / Panama	Ecuador
Amount	8,5 L to 8,7 L	7,6 L to 7,8 L
Bag (kg)	40 kg	40 kg

Information		Costa Rica / Nicaragua / Panama	Ecuador
VOC Content	g/L	0,0	0,0
Slump flow ASTM C 1611	cm	60 – 75	60 – 75
Maximum particle size	mm	< 12	< 12
Compressive strength ASTM C 1019 (kg/cm ²)	28 days	≥ 175	≥ 175

Recommendations

Excess water in the mix affects mechanical strength and product quality. Masonry units and material must be cool at the time of application. Do not use water with a temperature higher than 25 °C. Stop the construction of masonry walls if it is raining or if rain is foreseen to fall soon. In case the wall has been installed, cover it with plastic to protect it from the rain. CRC® Autocompactable does not require consolidation; however, if for conditions at the job it was required, vibrate according to the professional engineer's specifications. Storage time is 6 months in its original closed package. Keep in a cool, dry place.

Precautions

Wear adequate protection. Do not take internally. Avoid breathing dust. Eliminate or control dust while handling or placing this product. May burn or irritate the eyes or skin.

First aid: In case of contact, flush eyes or skin thoroughly for 15 minutes with clean water and get prompt medical attention. In case of ingestion, drink one or two glasses of water to dilute and get immediate medical attention.

Warranty

INTACO warrants that this product is free of defects and will perform in the way described in the technical sheet, only if the product is used strictly according to applicable specifications and instructions provided by INTACO for its use. INTACO will replace or, at INTACO's option, refund the purchase price of any product proven to be defective due to quality of ingredients or to the manufacturing process. INTACO does not take responsibility for indirect, consequential, incidental or special damages.

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