

# MasterCrete™ N 356 FC (Polifiks)

Cement Based Fast Setting Ready to Use Repair Mortar

## Material Description

**MasterCrete™ N 356 FC**, is a polymer modified, fast setting, ready to use repair and waterproofing mortar that contains special cement and minerals.

## Areas of Application

- Interior and exterior areas for vertical and horizontal applications.
- Filling of water leakages before waterproofing applications.
- Waterproofing of door and window frames.
- Filling tie-rod cavities inside molds.
- Camfering of corners joints, and repairing cold joints.
- Anchorage of components that are not bearing critical loads.

## Characteristics and Benefits

- Single component, only mixed with water.
- Easy to use, quick setting.
- It sets quickly against pressurized water and prevents water leaks.

## Processing Method

### (A) Preparation of Substrate

Application surface must be strong, dry and cleaned off all kinds of oil, grease, rust, pitch, paint, and curing materials that can weaken adherence. Existing cracks and spaces have to be cut in 20 mm width and with perpendicular sides. Avoid cutting in "V" shape.

### (B) Mixing

Put adequate amount of **MasterCrete™ N 356 FC** to be used in 3 minutes into a clean mixing container add necessary amount of water and mix. Do not mix for more than 30 seconds. Do not add any chemicals or materials to the mixture.

**ATTENTION:** Use warm or hot water in cold air.

### Mixing Ratio

MasterCrete™ N 356 FC	5 kg
Amount of Mixture	1,15-1,35 liter
Mixed of Density	~1,98 kg/liter

### General Ratio

4.50 volume **MasterCrete™ N 356 FC** + 1 volume of water. For the large hollows where a lot of repair is needed, 1/2 ratio silica sand may be added.

### (C) Processing

#### Sealing of the Construction Joint

Open the cold joint with minimum 20 mm width and depth or until reaching to the sound substrate. Remove wires, wooden wedges or similar materials from the surface. Fill the joint appropriately with **MasterCrete™ N 356 FC**.

## Technical Properties

Structure of the Material	Mineral Fillers and Polymer Modified Special Cement
Color	Grey
Compressive Strength (7 days) (TS EN 196)	>15 N/mm <sup>2</sup>
Substrate Temperature	+5 <sup>0</sup> C + 25 <sup>0</sup> C
Pot Life	3 - 5 minutes

*Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.*

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## Fixing of Metal Anchorage or Connection Components to Reinforced Concrete

Anchorage hole must be opened with an appropriate drill on reinforced concrete surface with greater diameter than the anchorage component's diameter. Afterwards, all the dust and loose particles inside the hole must be cleaned. Before the application, anchorage hole must be filled with water. Prepared anchorage holes must be filled with sufficient amount of **MasterCrete™ N 356 FC**. Anchorage component is then fixed turning quickly towards its vertical axis, before **MasterCrete™ N 356 FC** is cured.

## Consumption

Varies

## Point to Consider

- Wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 25°C. Also application should not be made in very hot, rainy or windy weathers.
- As a result of rising hydration temperature, **MasterEmaco® N 356 RS** sets quickly. It must be kept damp for 15 minutes. This period must be 30 minutes in dry and absorbent surfaces.
- Working and reaction time of special cement containing systems are affected by environment and ground temperature and relative humidity in the air. Low temperatures slow down the chemical reaction, and increase working period, coating time, and work time. Also coverage decreases because viscosity increases. High temperatures accelerate the chemical reaction and times stated above are reduced depending on this. For the material to complete its curing, environment and ground temperatures must not fall down below the minimum allowed value.
- For the applications in cold weather, packages must be conditioned in +20°C - +25°C and mixture must be prepared by hot water in order to increase workability to maximum.

## Cleaning of Tools

All the tools and equipments must be cleaned by solvent after the application. After **MasterCrete™ N 356 FC** is hardened, it can only be removed from the surface mechanically.

## Packaging

5 kg plastic bag.

## Shelf Life

6 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag and must be used in one week.

## Storage

Must be stored in unopened original packing, and in cool (+5°C - +35°C) and dry environment protected from freezing. The material must not be exposed to moisture or water. Pallets must be protected with stretch nylon. In short-term storing, maximum 3 pallets can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the pallets must not be stowed on top of each other.

## Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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## Disclaimer

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