

Armix SC 10

(Formerly known as MYK Inducrete SC 10)

High strength, fast-setting, fiber reinforced, non shrink, dry process cement-based shotcrete mortar



TECHNICAL DATA SHEET

Product Description

Armix SC 10 is ready-to use single component, fast-setting, high performance, high strength cement-based fiber reinforced, non-shrink, dry process shotcrete mortar. It is formulated to provide a durable structural repairing shotcrete mortar with high early strength, reduced rebound with a high build thickness without sagging.

Armix SC 10 contains selected hydraulic binders, silica fume, accelerating admixtures, alkali-resistant polypropylene fiber, shrinkage compensating additive and well graded quartz sands.

Uses

Armix SC 10 is formulated to be used in:

- Structural repair for large areas of reinforced repair where corrosion of the reinforcement such as bridges/dams, tanks, etc..
- Rock stabilization.
- Sealing & lining and repairing of tunnels, mine roadways, Spillways.
- Concrete repairs in thick layer in one shot.
- Concrete repairing that require fast setting and fast strength gain such as offshore structures, piers, quay walls.
- Swimming pool construction.
- All similar works.

Features and Benefits

- Ready –to-use.
- Non-shrink.
- Low permeability, durable.
- Non-toxic and does not contains harmful ingredients.
- Chloride and nitrate-free.
- High – build, can be applied up to 200-mm thickness at one shot.
- Fiber-reinforced, no risk of cracking.
- Reduced rebound.
- Excellent adhesion to concrete and steel.
- Fast early strength gain
- Excellent abrasion and impact resistant.
- Low dust and does not contains caustic accelerators

Application Methodology

Armix SC 10 is cementitious materials and both ACI and EFNARC shall be allowed for surface preparation, equipment, spaying & execution, and curing. Please, refer to:

- EFNARC: European specifications for sprayed concrete.
- EFNARC: European specifications for sprayed concrete: guidelines for specifies and contractors.
- EFNARC: European specifications for sprayed concrete:
- Execution of spraying
- ACI 506.2-95: Specification for shotcrete.
- ACI 506 R-90: Guide form shotcrete,
- ACI 506.3R-91: Guide to certifications of shotcrete nozzle head

All substrates shall be clean, sound, free from dust, grease & oils or any contaminants that will affect the binding between the product and the substrate. The concrete surfaces shall be soaked with clean water prior application of Armix SC 10. The concrete surfaces shall be saturated surface-dry (SSD) prior the application. Steel surfaces shall be from rust or corrosion traces to achieve SA2½.

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Application: Armix SC 10 shall be put directly to the hopper of the dry process shotcrete pump. The accurate amount of water will be added at the spray nozzle and controlled by the nozzle man for proper applications: little amount of water will increase rebound while more water will lead to sagging.

Finishing: After finishing of spraying, if the surface is leveled, it shall be done immediately. This will be carried out by trowl. If the surfaces will receive another coating, the surfaces shall be finished by wooden flat or wet sponge.

Curing: Armix SC 10 is cementitious materials, so ACI recommendations shall be followed through surface preparation, application and curing. Armix Range can be used for this purpose to achieve the optimum properties.

Cleaning:

Clean the tools & equipment or spillages with normal water.

Technical Data

Appearance	Grey powder free from lumps
Specific Gravity @ 23°C (mixed materials)	2.2 ± 0.05
Maximum aggregate size	4-mm
Chloride content	Nil
Mixing Water	3 - 3.5 Liters / 25-kg
Yield (Liters)	12.5 - liters
Setting times @ 23°C	7-10 minutes

Compressive strength (N/ mm²)

After 24-hours	15
After 3 Days	25
After 7 Days	45
After 28 Days	65

Flexural Strength (N/mm²)

After 24-hours	4
After 3 Days	5
After 28 Days	8

Consumption The consumption is influenced by the substrate conditions, for the smooth substrate, 2.2 kg / mm². 5-10% extra materials shall be calculated for loss.

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Packaging

Armix SC 10 is supplied in **25kg** sacks.

Storage and Shelf Life

Armix SC 10 shall be stored in normal conditions away from any extreme temperatures and away from any source of moisture. Armix SC 10 is valid for use for a period 12 months from the date of production and under proper storage.

Health & Safety

- Armix SC 10 is non-toxic, and does not contain any harmful ingredients.
- Any contamination of skin can be removed with normal water.
- For disposal follow the local regulations.
- For any details for safety requirements, please refer to Product's MSDS

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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