

## PRODUCT

### #108 MORTAR/Fast Flow Fast and Flowable, Non-Shrink, Cementitious Mortar

#108 MORTAR/Fast Flow is a ready-to-use pre-bagged product in powder form: mixed with water, it provides a flowable, non-shrink, fast setting and hardening, high strength mortar, with high bond to steel and concrete.

#108 MORTAR/Fast Flow contains no metallic aggregate and is chloride free.

#108 MORTAR/Fast Flow is reinforced with special synthetic fibres to improve mechanical characteristics.

## USES

- Restoring extrados and slabs heads.
- Anchoring steel structures, bedding machine base plates, under stanchion plates, manhole frames, etc...
- Maintenance works on bridges and in marine areas and harbours;
- Maintenance works in industries;
- Concrete repair and void filling;

## SPECIFICATIONS

1. Pot life: 20 to 30 minutes
2. Final setting time: 30 to 40 minutes
3. Application temperature: -5°C to 40°C
4. Water requirement : 2,6 to 3,2 lt/bag (25 kg)
5. Density: approx. 2,05 kg./lt.
6. Application thickness: up to 150 mm.
7. Compressive strength (UNI EN 12190):

3 hrs.	>20 Mpa
8 hrs.	>40 Mpa
1 day	>60 Mpa
28 days	>80 Mpa
8. Flexural strength (UNI EN 196/1)

1 day	>7 Mpa
7 days	>8 Mpa
28 days	>10 Mpa
9. Packing: 25 Kg. moisture-resistant bags, easy to store and handle thanks to their limited weight.
10. Self-life: 12 months, if stored in the original tightly sealed packs in dry warehouse.

## PREPARATION OF SURFACE

Clean surfaces from grease, oil, lime, dirt or dust by shot blasting, high-pressure water jetting or chisel to leave a clean and keyed surface.

Clean reinforcements from rust up to SA 2 Standard and add new reinforcing bars if old reinforcement is no longer sufficient.



## WATER SATURATION

Saturate concrete with water and remove any water in excess with air hose or rags before applying #108 MORTAR/Fast Flow.

## PREPARATION OF THE MORTAR

For a correct mixing of #108 MORTAR/Fast Flow, the following procedure is advisable:

- Open the bags of #108 MORTAR/Fast Flow required for the job a short time before mixing is started, pour the minimum amount of mixing water indicated into the mixer. Start the mixer and add #108 MORTAR/Fast Flow quickly and continuously.
- Use only clean potable water.
- Mix the blend 3 to 4 minutes after all #108 MORTAR/Fast Flow has been added, until the mortar is well mixed and without lumps.
- Add water, if necessary (within the quantities indicated), until the required consistency is achieved and mix again for 2 to 3 minutes. The water content can slightly vary from those indicated, depending on ambient temperature and relative humidity. In hot and dry climates, slightly higher quantity of water may be necessary, the contrary in cold and humid climates.

Hand mixing of #108 MORTAR/Fast Flow is not recommended, in order to avoid the use of excessive quantities of water. For small mixes, a drill with helical mixer can be used. Mix only the quantity of material that can be used before expiration of pot-life (20-30 minutes).

## THE INFLUENCE OF TEMPERATURE

#108 MORTAR/Fast Flow can be easily used when ambient temperature during mixing and pouring operations is up to 30°C.

If ambient temperature is higher (> 30°C), loss of workability is the only problem. If such loss is too high for the intended use, the following measures are recommended:

- a) store the bags of #108 MORTAR/Fast Flow in a cool place;
- b) use cold mixing water;
- c) work during the coolest period of the day.

## CURING

#108 MORTAR/Fast Flow is self-curing. Wet curing is not required.

All information and direction contained in this technical data sheet are given in good faith and are based on the best known practical test.

SINIT when having no control over transport, storage, handling, use and application of its product, will disclaim any responsibilities for any unsatisfactory results obtained.

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