

mart-FAST BLOCK

NEW GENERATION, MULTI-DOSE, WATER REDUCING PLASTICISER

DESCRIPTION

mart-Fast Block been specially designed for use in the manufacture of light precast concrete with immediate formwork release (concrete blocks, bricks, curbs, pipes, paving stones, etc.)

CHARACTERISTICS/ADVANTAGES

- Increased 24 hour and 28 days strength.
- Improves short term mechanical strengths.
- A significant reduction in breakage will be noted by using **mart-Fast Block** – the improvement of initial strengths reduces the risk of damaging the precast element after curing while the cohesiveness of improves the concrete finish.
- Less breakages and damages due to early age handling.
- Increased workability at constant c/w ratio.
- Equal workability at reduced water content.
- Allows for the possibility of adding water whilst retaining the integrity of the precast element.
- Permits the use of a wider range of aggregates
- Thanks to the concretes improved cohesiveness, it is possible to use crushed or less expensive aggregates.
- Facilitates easier filling, compaction and demoulding in block, brick, and paver machines.
- Reduced costs per cubic metre of concrete.
- Improved surface finish as well as visual quality.

Hardened concrete:

- Greatly reduces surface cracking due to drying shrinkage.
- Reduces permeability of concrete.
- Increases durability and resistance to chemical attack.
- Dramatically improved appearance on moulded concrete surface, particularly those made with harsh or poorly graded aggregates.

TYPICAL USES

- Light precast
- Brick and Blocks
- Precast structural flooring units
- Precast items that require immediate demoulding
- Paving

PHYSICAL & CHEMICAL PROPERTIES

Physical state (@25°C):	Liquid
Specific gravity (@25°C):	1.072 (±0.01)
Colour:	Brown
pH:	8.8 (±2.5)



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APPLICATION PROCEDURE

mart-Fast Block can be used with all Portland cements and / or blast furnace slag cements with or without pozzolanic additives, except aluminous cement.

Dosage:

- 0.5% to 2% per 100kg of total cementitious content.
- Optimum dosage by using trial tests, taking into account local conditions affecting the workability of the fresh mix and the mechanical properties required of the concrete, the production process and the different settings of the machines.
- **mart-Fast Block** is completely miscible in water.

Mixing

- Add **mart-Fast block** at the correct dosage into gauging water or simultaneously poured with gauging water into the concrete mixer to ensure uniform dispersion.
- **Do not** add **mart-Fast Block** directly on the dry mix.
- Total water % must be reduced by % of **mart-Fast Block** added to the mix
- We recommend thorough mixing for optimum utilization.
- To prevent foreign materials getting into **mart-Fast Block** we recommend closing the container between mixes.

Curing

- Standard curing procedures must be adhered to.

STORAGE

- Product should be stored in a cool dry place, away from rain and frost in clean, dry tanks.
- 12-month Shelf life starting from the manufacturing date – provided no other chemicals are added to it and kept in the original packaging.

PACKAGING

25lt, 200lt, 1000lt

HEALTH AND SAFETY

This product is classified as harmless.

For more information, please refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of Mart Solutions' knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving Mart Solutions' liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Mart Solutions specialists are at the disposal of the users in order to help them with any problems encountered.