

# ARMORCAST 200

## PLASTICIZING ADMIXTURE

### PRODUCT DESCRIPTION

ARMORCAST 200 is an innovative multi-purpose super-plasticizer. It is a ready-to-use plasticizer for use in non-slump concrete fabrication processes. Formulated to improve the manufacturing efficiency of non-plastic concrete products, this admixture adds a significant degree of cohesion for block and pipe applications. ARMORCAST 200 admixture improves cement particle wetting and increases strength development as a result

### FEATURES

- Reduces permeability in Concrete and increases durability
- Increases compressive and flexural strengths □
- Improves compactability of concrete
- Reduces breakage and culls □
- Applicable for all Portland and Slag Cements
- Potential cement reduction □
- Extends life of molds and machine parts □
- Increases overall profitability
- Improves the early strength & cycle time of Cast
- Improved cohesion, minimizes risk of segregation, bleeding and creep

### AREA OF APPLICATION

ARMORCAST 200 is typically used for:

- Cast at In-Situ
- Precast
- Dry-cast concrete pipes

### STANDARD

ARMORCAST 200 is formulated to comply with all the requirements of:

- ASTM C- 494, Type A
- EN 943, Part 2, Tables 1 and 2

### TECHNICAL PROPERTIES

**Appearance:** Dark brown liquid

**Specific Gravity:** 1.175 ± 0.005 at 20° C

**Form:** Liquid

**Smell:** Pungent

**Chloride content:** Nil

**Additional air-entrainment:** Less than 1%

**Water-reduction:** 10–20 % of mixing water

**Setting Time:** No effect at the recommended dosages

**Permeability:** Reduces concrete porosity, improves waterproofing and durability

**Compressive strength:** Increased early and ultimate compressive strengths

**Cohesion:** Improved cohesion reduces risk of segregation

**Compatibility:** Compatible with all types of Portland cement including Sulfate Resisting Cement (SRC)

### DOSAGE RANGE

Dosage is influenced by cement type, mix design, quality of used materials, ambient temperatures and other specific requirements, so site trials should be carried to determine the optimum dosage.

Dosage: typically 1% - 2% by the weight of total cementitious content. In a situation of overdose, this may lead to delay in setting time but ultimately result in higher strength.

### APPLICATION MODE

HYDROPLAST-50 should be added with the last third of mixing water or immediately after complete mixing water addition. Do not add directly to the dry mix or cement. For proper administration an automatic dispenser shall be used.



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### OVERDOSING

An overdose of HYDROPLAST-50 may result depending on dosage in an increase of workability and extension of setting time. Overdosed concrete must be protected against direct sun light and water evaporation.

### HEALTH AND SAFETY

- Wear protective gloves and eye protection during work
- Avoid contact with eyes and skin
- If skin contact occurs, wash skin thoroughly
- If in eyes, hold eyes open and flood with warm water and seek medical attention immediately

### HANDLING AND STORAGE

1. Precautions for safe handling:  
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact.  
No special measures necessary provided product is used correctly.
2. Conditions for safe storage, including any incompatibilities.  
Further information on storage conditions: Keep only in the original container in a cool, dry, well ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
3. Dispose of contents/container to hazardous or special waste collection point.

### DOSAGE RANGE

**Reactivity:** No hazardous reactions if stored and handled as prescribed/indicated.

**Chemical stability:** The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions:** The product is stable if stored and handled as prescribed/indicated. Conditions to avoid See MSDS section 7 - Handling and storage.

**Incompatible materials Substances to avoid:**

strong acids, strong bases, strong oxidizing agents, strong reducing agents

### LIMITED WARRANTY

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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