

SPECIAL DISPERSING ADMIXTURE FOR CONCRETE MANUFACTURED DRY CAST & SEMI-DRY APPLICATIONS

PRODUCT

Admix SD PLAST 110 is a multi-component admixture specifically formulated to be used in the manufacture of "dry" or "semi-dry" vibrated and pressed concrete products such as paving and masonry blocks, bricks and architectural masonry to assist compaction, disperse cement, color and fine aggregate particles, and help reducing efflorescence and increasing water tightness. Damage by handling, strapping and palleting is reduced, and the resistance to abrasion is significantly enhanced.

Admix SD PLAST 110 does not contain calcium chloride. Admix SD PLAST 110 is also a plasticizing admixture that provides improved placement and lubricity to semi-dry concrete products.

Admix SD PLAST 110 disperses the mix to provide added workability while lowering the overall water to cement ratio. This allows easier hydration of the cement particles and results in improved green strengths and higher ultimate compressive strengths. Admix SD PLAST 110 works on very low water/cementitious mixtures.

PROPERTIES

- Lowers moisture absorption
- Minimizes efflorescence
- Improves appearance and texture
- Improves consistency
- Increases concrete cohesion
- Enhances the bonding of double layers applications
- Improves durability due to effective dispersion
- Can be used to gain economies due to possible cement reduction without impairing mechanical properties
- Produces high early strengths and can significantly increase mold utilization in semi-dry and precast works
- Enhances performance of semi-dry concrete with use of recycled aggregate and other materials
- Optimizes the performance of semi-dry concrete with use of supplementary cementitious materials
- Reduced curing period/steam
- Provides economical reduction of curing costs
- Improves the production cycle by providing reduced cycle time due to proper filling and response to vibration
- Reduces loss of manufactured products by providing improved "green" strength and sharper edge detail
- Use in sustainable application where recycled or alternative materials are applied.

SCOPE OF USE

Admix SD PLAST 110 is recommended for all cement types in the following areas:

- Concrete masonry block
- Architectural concrete panels
- Roof tiles
- Interlock Pavers
- Precast concrete
- Colored concrete
- Concrete with low W/C
- Concrete with GGBS, fly ash, metakaolin and silica fume
- Hollow core precast concrete elements
- Reduction in cement content
- Kerbstones

CHARACTERISTICS

Appearance	Liquid (brown)
Specific gravity at 20°C	1.08 ± 0.01
Chloride content	NIL- BS 5075/EN 934-2

STANDARDS

Admix SD PLAST 110 complies with:
ASTM C – 494 – Type A
BS 5075 Part 1
BS EN 934, Part 2. Tables 2

INSTRUCTIONS FOR USE

Admix SD PLAST 110 is totally miscible in water. Admix SD PLAST 110 is normally dosed as supplied at a rate of 1000 to 5000 ml per 100 kg of cement. Other dosages may be required depending on specific conditions. For best results, add Admix SD PLAST 110 after pre-wetting the mix aggregates and cement with part of the required hydration water. Avoid addition of Admix SD PLAST 110 to dry cement mix if possible. Mix components for at least two minutes to provide optimum lubricity to the mix.

For high early strength of concrete, use a lower w/c and a higher Admix SD PLAST 110 dosage.

DOSAGE

Trials should be conducted to determine the optimum dosage of Admix SD PLAST 110 for a particular mixture. A dosage of 1000 to 5000 ml per 100 kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

Admix SD PLAST 110

EFFECT OF OVER DOSING

Admix SD PLAST 110 can be used at high dosages without retardation.

Severe over dose of Admix SD PLAST 110 will result in the following:

- Slight delay of the initial and final setting of the concrete mixture
- Slight increase in air entrainment
- Increased workability

COMPATIBILITY

Admix SD PLAST 110 is compatible with all types of Portland cement, class C and F fly ash, silica fume, ground granulated blast furnace slag, fibers and approved air entraining, accelerating, retarding, and high-range water-reducing admixtures.

Admix SD PLAST 110 can be used in all types of Portland and sulfate-resisting cements, including those containing supplementary cementitious materials. For use with other cements, contact the company's technical service department.

Admix SD PLAST 110 should be dispensed directly into the mixer and should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing Admix SD PLAST 110 they must be dispensed separately. Consult the company's technical dept. for advice.

PACKAGING

Admix SD PLAST 110 is supplied in:

Bulk, barrels

Storage tanks can be provided for bulk use.

STORAGE

Admix SD PLAST 110 can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

HEALTH & SAFETY

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case of contact with skin or eyes, rinse

thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

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