

RIVERTEX

High Range Water Reducing Polycarboxylic Copolymer

RIVERTEX is the main raw material for concrete admixture, which improves water reducing abilities. This product was developed through our advanced synthetic technologies, imparting good compatibility and low viscosity control in the concrete.

Performance of RIVERTEX in concrete

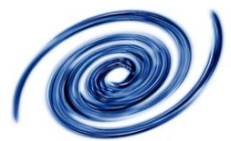
Conventional superplasticizers such as those based on sulfonated melamine and naphthalene formaldehyde condensates, at the time of mixing, become absorbed onto the surface of the cement particles. This absorption which takes place at a very early stage in the hydration process increases the negative charge of the cement particle which causes better dispersion of the cement. **RIVERTEX** is differentiated from conventional superplasticizers in that it is based on polycarboxylic ether with long lateral chains. This greatly improves cement dispersion at the start of the mixing process, in addition the presence of the lateral chains linked to the polymer backbone, generate a steric hindrance which stabilizes the cement particles capacity to separate and disperse. This mechanism provides a workable concrete even at low water cement ratios.

Advantages

- High water reducing ability (Low W/C)
- Improved concrete setting time
- Low concrete viscosity
- Economical concrete design

Applications

- LNG reservoir, Rapid-transit railroads, Highways, Subways, Tunnels, Bridges Self-compacting
- concrete
- High-rise buildings with high durability
- Off-shore and marine structures
- Pre-cast and pre-stressed elements



RIVERTEX

White Damavand Corporation

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Effect on hardened concretes Properties

Besides stated effects of this admixture on fresh concrete while mixing and casting, it also has significant positive effects on hardened concrete such as increasing ultimate compressive and flexural strengths, higher E-modulus, improving adhesion to reinforcing and stressing steel, better resistance to carbonation, lower permeability, better resistance to aggressive atmospheric conditions, reducing shrinkage and creep and increasing durability.

Packaging

RIVERTEX is supplied in 220 kg drums and 1100 kg IBCs. Bulk delivery is possible based on request.

Properties

Appearance	Clear brown liquid
Solid content (wt.%)	50
pH	4±2
Viscosity (cP)	< 700
Density (g/cm3)	1.1
Chloride content (w/w%)	<0.1

Compatibility

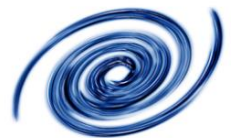
This product should not be premixed with any other admixtures unless be approved by White Damavand specialists. In case of requirement of utilizing other admixtures in concrete, it is highly recommended to add them separately. **RIVERTEX** is compatible with concretes containing silica fume, fly ash, or ground granulated blast or slag cement.

Consumption rate

Recommended dosage of **RIVERTEX** is 0.2 to 1 percent of cement (cementitious materials) content. Dosages outside this range are permissible subject to trial mixes.

Storage

This product must be stored in original containers at above +5 °C under cover, out of direct sunlight and protect from extremes of temperature. If frozen, gradually thaw and agitate until completely reconstituted.



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Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact White Damavand Technical Services Department. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact White Damavand Technical Services Department.

Safety awareness

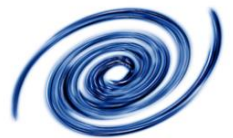
RIVERTEX does not contain any hazardous substances. For more information about safety, please read product material safety data sheet.

Quality approval

All materials produced in White Damavand Co. are under strict control of QC department and meet the requirements of international standards.

Supplementary data

For any additional information, please contact company's specialists.



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