KEM SUPLAST L10 PCE
Super Plasticizer for High Early Strength

Ref. CA/SP-V1-1114

KEM SUPLAST L10 PCE is a Polycarboxylate Ether based product. KEM SUPLAST L10 PCE is a highly effective superplasticizer with manifold applications. KEM SUPLAST L10 PCE is permitted for prestressed and precast concrete. KEM SUPLAST L10 PCE virtually contains no chloride, so there is no corrosion hazard to the steel reinforcement. Specially developed for precast article like paver blocks.

Uses

- Ready mix concrete production
- For production of precast articles like Paver blocks, paver tiles, concrete poles, pipes & other cement articles.
- For improvement in Surface finishing
- Increased hardness and abrasion resistance.
- Concrete containing Pozzolans
- Improvement of resistance to freezing and thawing.
- Reduced de-moulding times.

Advantages

- KEM SUPLAST L10 PCE has a strong plasticizing effect. It is absorbed on the surface of the hydraulic binding agents and of the fine aggregate particles, where it forms a lubricating film, thus reducing the inner friction of the heterogeneous fresh mix.
- In addition, KEM SUPLAST L10 PCE has a strong dispersing effect even the surface tension of water is not being reduced.
- The hydraulic binding agents are better utilized by this strong dispersing effect.
- KEM SUPLAST L10 PCE provides thyroxotrophic properties and a good inner cohesion to the fresh building materials mix, thus avoiding segregation and bleeding phenomena even at extremely good flow ability.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Light Brown liquid</td>
</tr>
<tr>
<td>Sp. Gravity</td>
<td>1.03 ± 0.02</td>
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<tr>
<td>pH value</td>
<td>&gt; 6</td>
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<tr>
<td>Miscibility with water</td>
<td>In any ratio</td>
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Standards


Direction for use

The requisite quantity of KEM Suplast 6040 is added inside the concrete batch mixer with gauging water. The high dispersion property of KEM Suplast 6040 enables a saving in the quantity of cement used.

Dosage

KEM Suplast L10 PCE is dosed between 200 ml to 500 ml per bag of 50 kg cement. However the dosage can be increased above the recommendation with prior consultation with our technical service department.

To achieve the optimum dosage for effective performance, it is always recommended to carry out trial design mixes at site conditions.

Effects of over dosage

An over dose of double the maximum recommended dose of KEM Suplast L10 PCE will result in very high workability, possible severe retardation and segregation. Otherwise the ultimate compressive strength of the concrete may not be impaired, if properly cured. The overdosing effect will be more severe when used with sulphate resisting cement.

Compatibility

KEM Suplast L10 PCE is compatible with OPC, PPC, Fly Ash.
**Workability**

Addition of KEM Suplast L10 PCE reduces the water demand of concrete and improves the concrete workability at fixed W/C ratio. When the W/C ratio is lowered, addition of KEM Suplast 6040 maintains the original workability and increases the strength of concrete.

As a concrete retarder, KEM Suplast L10 PCE delays the cement hydration process resulting in better slump retention. This is of great importance especially in countries like India where the ambient and concrete temperatures are high.

**Packaging**

30/100/200 LTR.

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**Storage and Shelf life**

- **Storage**: In its closed original packing, protected from excessive heat
- **Shelf life**: 12 months.

**Technical Service**

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

**Safety precautions**

KEM Suplast L10 PCE is non-toxic and non-flammable. However, any splashes on the human body, must be washed with plenty of water.

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**Limitation of Liability:**

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or he verification of details given herein.