

KEM SCC – 30

Hyper Plasticizer based on modified
Poly Carboxylic Ether (PCE)

DESCRIPTION:

Kem SCC 30 is a third generation high performance concrete hyper plasticizer, an opaque – light brown coloured solution of Poly Carboxylic Polymer. KEM PAC 30 disperses cement particles and fillers by electro static repulsion coupled with steric hindrance. Stabilizes the cement particle's capacity to disperse and separate, resulting highly workable/flowable concrete with greatly reduced water content. KEM PAC 30 allows a water reduction upto 40% while workability is maintained. Thus with KEM PAC 30 we can produce concrete with high Early and ultimate strength with minimal voids and therefore optimum density. In applications where high final strengths are required for high performance concrete (HPC) or self-consolidability concrete (SCC) the use of KEM SCC 30 is suggested.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem SCC 30 meets/exceeds the requirements as per ASTM – C494 Type-A & F.

Type	: Poly Carboxylic Ether
Colour	: Light Brown
Specific gravity	: 1.07 ± 0.02
pH	: 7 – 8
Chloride content	: $< 0.05\%$
Shelf life	: 12 months in the original un-opened packing.
Storage	: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- To produce high early strength concrete
- Self-compactable concrete
- Water reduction upto 40%
- Ready Mix and Pre-cast Concrete Industries where high durability and performance is required.

KEM SUPLAST TB 101 G

Super Plasticizer for Concrete

DESCRIPTION:

Kem Suplast TB 101 G is a high range water reducing and retarding type admixture, specially formulated to meet the requirements in Pavement Quality Concrete (PQC) production for highway projects.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast TB 101 G meets/exceeds the requirements as per IS 9103 and ASTM – C494 Type-G

Type	: Modified sulphonated naphthalene formaldehyde with selected water soluble co-polymers
Colour	: Dark Brown
Specific gravity	: 1.20 ± 0.02
pH	: 7 – 8
Chloride content	: <0.05%
Shelf life	: 12 months in the original un-opened packing.
Storage	: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Pavement Quality Concrete (PQC)
- Reinforced concrete
- High strength concrete
- Pre-stressed concrete work

PRODUCT FEATURES:

- Substantial improvements in workability without increased water requirement.
- Effective for concreting in hot weather.
- Suitable to produce concrete containing cement replacing pozzolonans like micro silica (silicafume), slag (GGBFS) and fly ash (PFA).
- Reduce segregation and bleeding in plastic concrete.
- Reduce cracking and permeability in hardened concrete.

KEM SUPLAST TB 101 R

Super Plasticizer for Concrete

DESCRIPTION:

Kem Suplast TB 101 R is a high range water reducing admixture – formulated from selected water soluble polycondensates and polymers. Kem Suplast TB 101 R incorporates a new generation of highly powerful dispersants, which make the product possible to use the full potential of cement – water matrix at a very low dosage.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast TB 101 R meets/exceeds the requirements as per IS 9103 and ASTM – C494 Type-G

Type	:
Colour	: Dark Brown
Specific gravity	: 1.20 ± 0.02
pH	: 7 – 8
Chloride content	: <0.05%
Shelf life	: 12 months in the original un-opened packing.
Storage	: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Reinforced concrete
- High strength concrete
- Pre-stressed concrete work
- Water tight concrete/under water concrete

PRODUCT FEATURES:

- Improves the workability and pumpability with quicker and easier placing and compaction.
- Accelerates the hardening process once setting has started.
- Suitable to produce concrete containing cement replacing pozzolonans like micro silica (silicafume), slag (GGBFS) and fly ash (PFA).
- Reduce segregation and bleeding in plastic concrete
- Reduce cracking and permeability in hardened concrete.

KEM SUPLAST TB 101

Super Plasticizer for Concrete

DESCRIPTION:

Kem Suplast TB 101 is a water reducing and retarding type concrete admixture. Kem Suplast TB 101 is based on water soluble polycondensates and selected polymers enabling optimum concrete mix performance

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast TB 101 meets/exceeds the requirements as per IS 9103 and ASTM – C494 Type-A, B & D

Colour : Dark Brown

Specific gravity : 1.20 ± 0.02

pH : 7 – 8

Chloride content : $<0.05\%$

Shelf life: 12 months in the original un-opened packing.

Storage: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Reinforce concrete
- High strength concrete
- Pre-stressed concrete work

PRODUCT FEATURES:

In Plastic Concrete

- Improves workability, finishability and setting time
- Reduces water requirement, bleeding and segregation.

In Hardened Concrete

- Increases all strength
- Improves finished appearance
- Reduces cracking and permeability.

DOSAGE:

0.3 – 1.8% by weight of cement or cementitious materials and at extreme hot

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Super Plasticizer for Concrete

DESCRIPTION:

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PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast TB 101 meets/exceeds the requirements as per IS 9103 and ASTM – C494 Type-A, B & D

Colour : Dark Brown

Specific gravity : 1.20 ± 0.02

pH : 7 – 8

Chloride content : $<0.05\%$

Shelf life: 12 months in the original un-opened packing.

Storage: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Reinforce concrete
- High strength concrete
- Pre-stressed concrete work

PRODUCT FEATURES:

In Plastic Concrete

- Improves workability, finishability and setting time
- Reduces water requirement, bleeding and segregation.

In Hardened Concrete

- Increases all strength
- Improves finished appearance
- Reduces cracking and permeability.

DOSAGE:

0.3 – 1.8% by weight of cement or cementitious materials and at extreme hot

KEM SUPLAST TB 101 S

Super Plasticizer for Structural Concrete

DESCRIPTION:

Kem Suplast TB 101 S is a high range water reducing, slump retaining admixture for rheoplastic concrete. The higher slump retention and pumping capacity of TB 101 S makes the product best suited for structural concrete, ready mix concrete industry, where there is a delay in transportation and placing with high ambient temperature.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast TB 101 S meets/exceeds the requirements as per IS-9103 and ASTM – C494 , Type-G

Type:	: Modified sulphonated naphthalene formaldehyde with selected water soluble co-polymers.
Colour	: Dark Brown
Specific gravity	: 1.20 ± 0.02
pH	: 7 – 8
Chloride content	: <0.05%
Shelf life	: 12 months in the original un-opened packing.
Storage	: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Reinforce concrete
- High strength concrete
- Pre-stressed concrete work
- Water tight concrete

PRODUCT FEATURES:

- Produces flowing concrete with controlled delay of slump loss and workability.
- Suitable to produce pumpable concrete.
- Suitable to produce concrete containing cement replacing pozzolonans like micro silica (silicafume), slag (GGBFS) and fly ash (PFA).
- Effective concreting in hot climate.
- Greatly reduces water requirement upto 25%.
- Reduces segregation and bleeding in plastic concrete

KEM SUPLAST VISCON

Super Plasticizer cum Stabilizer

DESCRIPTION:

Kem Suplast Viscon is a high performance super plasticizer or high range water reducer with a viscosity modifying stabilizer which imparts a stabilizing effect on concrete. Kem Suplast Viscon stabilizes and increases the Rheologic properties of concrete like; workability, pump ability and placeability. It is highly useful in the production of Self-Levelling Concrete / Rheo Plastic Concrete – is a fluid, cohesive mix but at the same time free from segregation with normal setting time and increased compressive strength.

PRODUCT SPECIFICATION / COMPLIANCES:

Kem Suplast Viscon meets/exceeds the requirements as per IS-9103 and ASTM – C494 , Type- A & F

Type: : Melamine Polymer

Colour : Clear Liquid

Specific gravity : 1.13 ± 0.02

pH : 7 – 8

Chloride content : $<0.05\%$

Shelf life: 12 months in the original un-opened packing.

Storage: Keep away from direct sunlight and extreme heat.

PRIMARY APPLICATIONS:

- Highly workable, flowing concrete.
- To produce high early and ultimate strength concrete.
- Pre-cast concrete
- Pavement Quality Concrete (PQC) for Highways.
- Concrete with white cement – because its translucent colour

PRODUCT FEATURES:

- Suitable for production of concrete with high flow or self-levelling properties, when there is a high demand for pump ability without segregation or when there is low level filler material.
- Makes casting easier and gives a good finish of the concrete where it is difficult to obtain such as with congested formwork.
- Suitable to produce concrete containing cement replacing pozzolonans