





PACKING:

50,220 Litres

A Poly Carboxylic Based

An unmatched the ultimate admixture for cement concrete. Specially developed for delaying hydration of cement with reduced cement water ratio at a given workability by increasing compressive strangth at all ages without affecting the long term mechanical properties of cement.

In cement concrete phenomenon of SPC-99 is observed as under:

- 1) Faciliate transportation of readymix concrete (RMC) over long distances even in hot climates without loss of strength.
- 2) Mass concrete and high reinforcement concrete structures where construction joints have to be avoided.
- Cementation of oil wells, ready mix oil well cement.
- 4) High quality concrete pours which demand good workability throughout placement in large section.
- 5) Hot weather concreting with long and difficult pours.
- 6) Produces extremely workable, high strength, pumpable water tight dense
- Produces durable, crack resistance, frost resistance deicing salt resistance concrete.

TEST RESULTS CONDUCTED ON CONCRETE USING SPC-99

MIX: Cement (OPC) + Sand = 32% Crushed Aggregate (5-20 mm) = 68%

Description of mix	Dosage ml/ kg of Cement	W/C	Cement Content kg/m²	Slump (mm)		Compressive strength (kg/cm²)		
				'0' min	'30' min	3 days	7 days	28 days
Control	-	0.62	308	045	1745	120	165	243
Increased Workability	6.00	0.62	308	175	100	140	198	270
Increased Strength	8.00	0.55	308	040	10	170	225	335
Cement Saving		0.50	380	040		180	240	380
	8.00	0.50	342	040	8.48	100	250	395

Many Fold Advantages:

- High workability
- High Strength at all stages
- High slump retention
- High retardation
- High water reduction
- Highly durable concrete
- High increase in the surface area Lower W/c ratio: reduction 10% to 25%
- Improve surface finish
- Easier placing & campaction.
- ٠ Reduces risk of segregation
- Crack resistant
- Free flow concrate
- Cohesive pumpable mix

- No bleeding
- Allows more time for handling
- ٠ Decrease water permeablity
- No toxic
- Smooth hot weather concreting
- Better thermal insulation
- No corroision.
- Avoide cold joints
- Less energy for curring No honey combing
- ٠
- · Frost resistant
- Deicing salt resistant
- Cement saver
- Chloride free

Area of Application

Most suitable for construction of high ways, roadways, aprons & hard standings, very useful in dams, reservoirs, power station, under ground tanks etc. Ideal for ready mix plants, pre-cast concrete, prestressed concrete, hot weather concrete closely space & areas, large bay areas, floor slabs, bridge decks and other areas when high slump property is required.

HOW to Use

- 1) As per the job condition in general add 100ml, to 500ml, of SPC-99 with required guaging water for every 50kg, cement in the concrete/mortar mix. Cure as per the construction norms.
- Effect of SPC-99 may vary with cement type, grading of sand, size & shape of aggregates, temperature, other job conditions etc. Therefore to faciliate addition and to prevent over dosing, it is advised to determine on trial mixes the actual dosage.