

DESCRIPTION

CX-1 is a liquid extender for cement, allowing slurries to be mixed with freshwater or seawater at densities as low as 11.4ppg. This product is used as a liquid substitute for blended or pre-hydrated bentonite but gives the advantage of shorter thickening times than bentonite slurries, especially at low temperatures and low densities.

APPLICATION

The amount of **CX-1** required varies with the density of the slurry and to some extent with the other additives used. Testing of individual slurry designs and cement batches should be carried out to optimise the volume of extender required. Calcium Chloride can be added as an accelerator at low temperatures, and with freshwater slurries it can reduce the amount of **CX-1** required.

The table below shows the typical volumes of extender required at given slurry densities using European class 'G' cement and seawater.

PHYSICAL PROPERTIES

Chemical Composition	Aqueous Sodium Silicate
Viscosity	126cP @20°C (68°F) 440cP at 2°C (36°F)
Freezing Point	-3°C (27°F)
Density	1.39g/cc @20°C (68°F)
Activity	38% Nominal

PACKAGING

Usually supplied in either 200L plastic drums or 1000L plastic IBCs.

ADDITIONAL INFORMATION

Slurry properties with typical European Class 'G' cement

Slurry Density (ppg)	Seawater (gps)	CX-1 (gps)	Slurry Yield
14	8.12	0.20	1.58
13.5	9.27	0.30	1.75
13.0	10.72	0.35	1.95
12.5	12.53	0.45	2.20
12.0	14.90	0.50	2.53
11.5	18.09	0.60	2.97