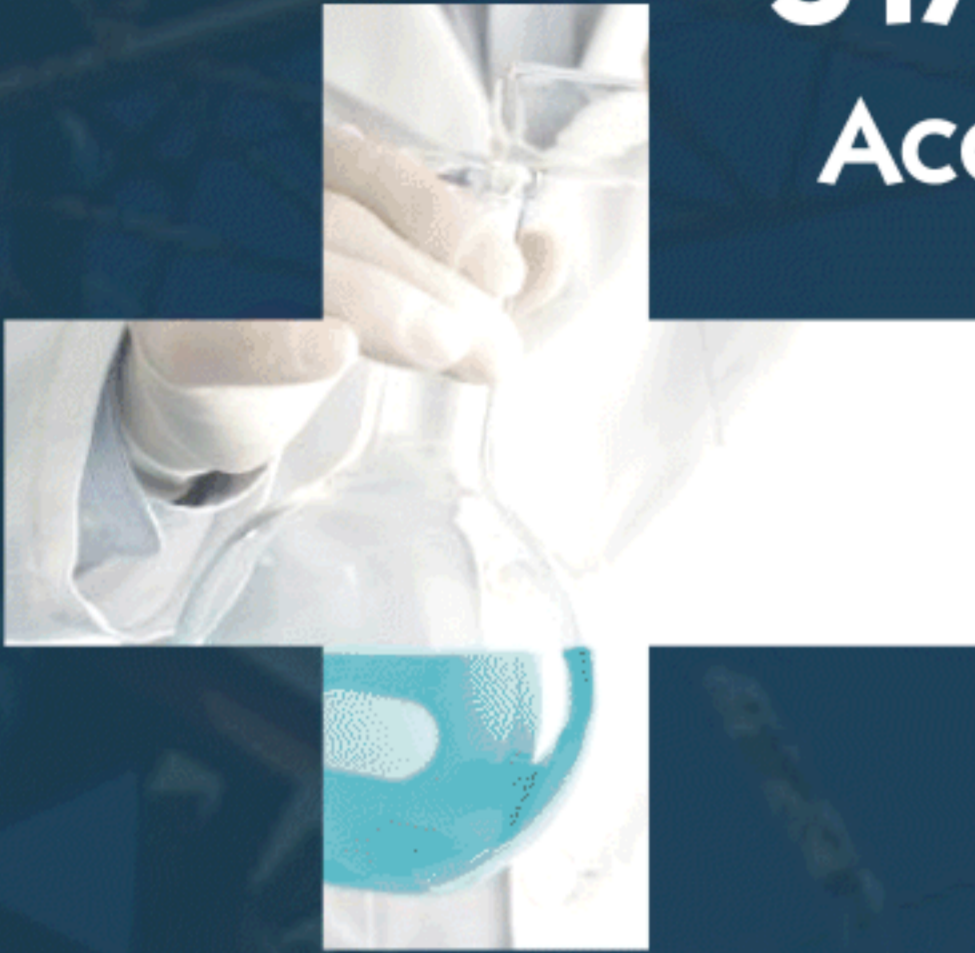


STAREX Concrete Admixture

Accelerator for High Early Age Strength



The logo for UNISOL, featuring the word "UNISOL" in a bold, sans-serif font. The letter "O" is replaced by a stylized water droplet icon. To the left of the word, there are three small, grey, plus-sign-like symbols arranged in a descending staircase pattern.

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STAREX : Concrete Admixture for High Early Age Strength

Introduction

- Powder-form concrete admixture that acts as early age strength accelerator
- Allows the tri-calcium silicate reaction to begin sooner than normal, thus resulting in significantly higher early age strength of cement

Advantages

- Higher cement strength by 30% at 1-day, 20% at 3-day, 10% at 7-day and 5-7% at 28-day
- Reduced cement consumption in concrete by 5-10%
- Improved workability in the final cement and concrete mortars
- Increased durability of concrete due to reduced water porosity
- Increased cement flowability and reduced pack set of cement resulting in lower handling costs and reduced waste

Dosage

- Recommended dosage varies between 0.03% and 0.05% by mass of total cement feed
- Exact dosage should be determined by way of lab and plant scale tests

Dosing Mechanism

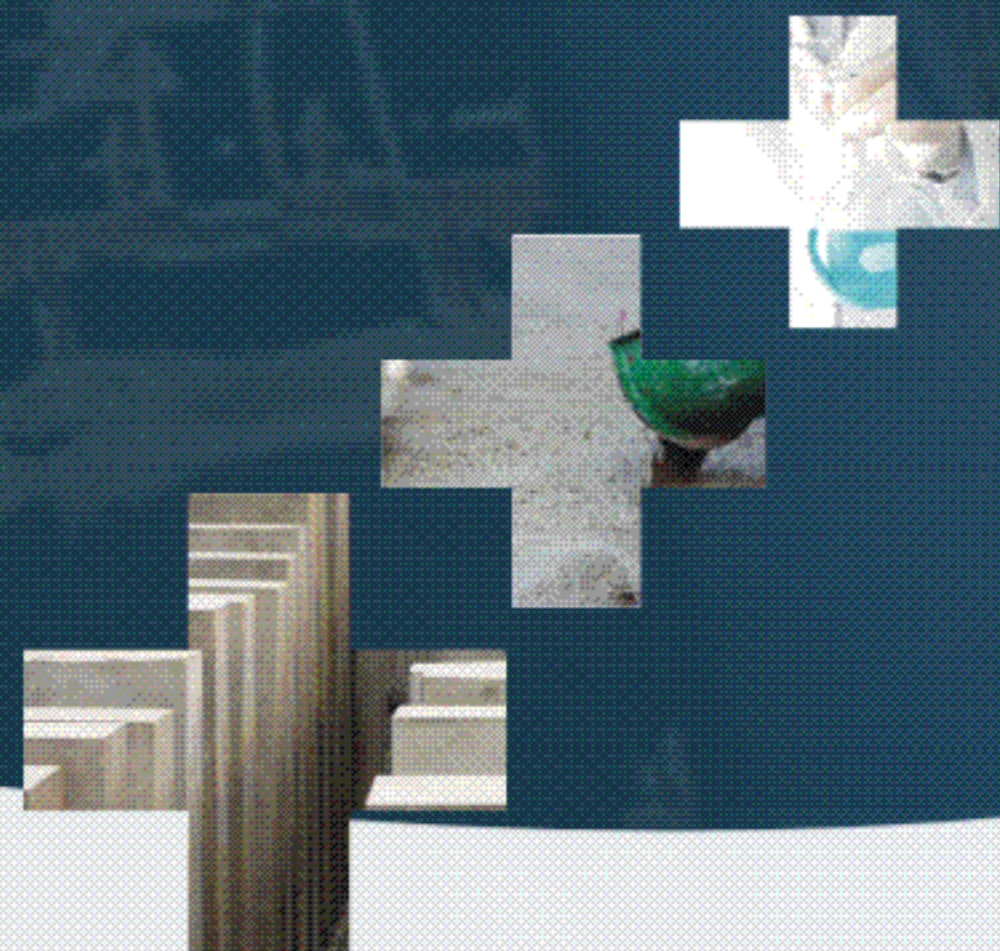
- STAREX can be dosed manually by directly feeding into the batch mixers

Packaging

- Packed and supplied in 25-KG powder bags

Chemical Composition

- Organic Salts: 50%
- Amorphous Silica: 30%
- Salts of Ammonia: 20%



Test Results

▪ Mix Design

	Mix A	Mix B	Mix C	Mix D
Water/Cement Ratio	0.45	0.50	0.57	0.73
Water (l)	6.3	7	6.45	6
Cement (kg)	13.95	13.95	11.25	8.25
Sand (kg)	25.5	25.5	26.85	28.5
Stone (kg)	30	30	31.5	33

▪ Impact of STAREX on Compressive Strength

	Mix A	Mix B	Mix C	Mix D
1 DAY				
WITHOUT STAREX	11.8	8.2	7.5	11.8
0.05% STAREX	16.4	10.3	9.8	14.4
3 DAYS				
WITHOUT STAREX	24.6	20.4	17.8	16.3
0.05% STAREX	27.9	22.1	19.5	19.6
7 DAYS				
WITHOUT STAREX	35.7	30.1	27.8	26.1
0.05% STAREX	37.9	31.0	28.3	29.2
28 DAYS				
WITHOUT STAREX	52.5	44.2	41.5	34.6
0.05% STAREX	52.9	46.6	42.4	38.0

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