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אפק א.ר.מ.ע בע״מ

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Product name:	NL-93
Supplier:	AFEC e.r.m.a Ltd.
Manufacturer:	AFEC e.r.m.a Ltd.
Description:	 NL-93 is a high-performance retarding super plasticizer, based on modified sodium gloconates and lignosolphonate. particularly recommended for ready mix concrete and civil Engineering construction. NL-93 intends to create a water reduction and/or an increased period of workability retention. It allows manufacturing concrete with long workability retention. NL-93 may be used in a large concrete range. NL-93 is compatible with most of the cement's types. NL-93 complies with the Israeli standard 896 part 1 and EN 934 part 2.
Fields of applications:	 Manufacturing of ready mixed concrete.
	 Manufacturing high quality and high durability concrete.
	 Manufacturing of high-performance concrete with high density, low permeability.
	 Manufacturing ready mixed concrete with long delivery time.
Advantages:	 Medium to Low water/cement ratio.
	 Flowable concrete with no segregation or bleeding.
	 Less or no vibration required even in case of high steel reinforcement.
	 Improves concrete durability.
	 NL 93 can work with low cement content without changing the concrete properties.



	Color: Brown	Nature: Liquid
Properties:	PH: 5.5 ± 2	Density: 1,08 ± 0,05
	Na2O equivalent: < 1,0 %	Cl^{-} ions contents: $\leq 0,02 \%$

Direction of use:	NL-93 can be put in the mixer with the first amount of water before the dry ingredients. The mixture should be mixed for 5 minutes in the fastest range possible. Correct the needed water content. At site before discharging mix at high speed for several minutes.
Precautions and limitations:	Overdose of NL-93 will make the mix unworkable and with a long initial setting time.
Remarks:	Before beginning the work, you should make a trail mix at the laboratory and adjust the concretes desired properties.
Accumulation:	Liquid
Chemical Stability:	Stable between 6°c-55°c
Possible health Influence:	Low toxic range. Do not swallow.
First aid:	Rinse with water and seek medical advice.
Personal Hygiene:	Do not inhale! Protect eyes during use. Use relevant shield. Rinse hands after use.



Dosage: 0.6%-1.6 % of the cement content in $1m^3$ of concrete.

Package: Plastic containers of 1000 liter mini containers.

Handling &Closed packages – up to 6 months in closed containersstoring:Do not expose to direct sunshine.