



TECHNICAL DATA SHEET



TEKNA PLAST AE N-S conforms to directive EN 934-2

TEKNAPLAST AE N-S

**PLASTICIZER FOR CONCRETE
SPECIFIC FOR EXTRUDED CONCRETE**
DESCRIPTION

TEKNOPLAST AE N-S is a plasticizer additive, slightly aerating, ready for extruded concrete (S1 consistency - moist earth) and mortars. Compound of suitable modified polymers is also indicated in the lightened concrete to improve the penetration to the cement paste of: expanded clay, polystyrene, perlite, vermiculite, cork, etc.

TEKNAPLAST AE N-S flows into the mixture, as regards its dosage, fluency, fluidity or superfluidity, by avoiding phenomena of segregation or separation of the components.

CHARACTERISTICS

TEKNOPLAST AE N-S acts by dispersing cement particles and the fine parts of the aggregates, it reduces the amount of water necessary to wet their surface area and improves the response to the vibration. For some of its components with catalytic properties is obtained a better hydration of the cement particles with a consequent increase of the resistances to equal w / c ratio. The presence of stabilized micro-air bubbles improves the rheology of concrete with low dose of cement by facilitating the pumping; it also results in better stability of mortars and concrete with lightweight aggregates. The effective amount of incorporated air micro-bubbles will depend on the dosage of the additive, the amount of water, the viscosity of the concrete and the energy of mixing.

ADVANTAGES

The use of **TEKNOPLAST AE N-S** in the concrete allows to obtain, in comparison to a concrete without additive:

- More workable concretes, at equal w / c ratio, therefore large economies for setting;
- Reduction of the ratio a / c, with the same workability;
- Better response to operations of vibration;
- More time to initial workability for a slight delay of the socket (not hardening);
- Reduction of bleeding and jet volumetric changes in the fresh state;
- Increases the resistance of concrete in equal conditions, also lean concrete;
- Perfect surface finish and easy to be obtained;
- Reduction of permeability and greater resistance to cycles of freezing and thawing.

APPLICATIONS

- Concrete with damp earth consistency, extruded or vibro-compressed;
- Facilitates pumping for concrete with low dose cement;
- Mixtures with lightweight aggregates (expanded clay, perlite, vermiculite, polystyrene, etc.);

- Plaster mortars and masonry (in this case it can replace the hydrated lime).

DOSAGE

0.5-0.7% w.p.c.: lightweight concrete, pumpable

0.2-0.4% w.p.c.: concrete with damp earth consistency

HOW TO USE

In mixer truck lorry: it is introduced together with the first mixing water, before the aggregates and cement.

With the mixer: is added after all the components and about 90% of the water required; at the end of mixing, add the water necessary to obtain the desired consistency.

For mixtures with lightweight aggregates: introduce the water, the additive and the lightweight aggregate into the mixer truck lorry. Mix until its saturation; then add the cement.

Since the product is a reducer of w / c ratio, you should carefully check the amount of water used as an overdose of it could cause bleeding, segregation and it could undo the effect of **TEKNA PLAST AE N-S**.

We always recommend preliminary tests.

PHYSICAL PROPERTIES

STATE:	LIQUID
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COLOUR:	BROWN
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DENSITY AT 20 ° C:	1.2 ÷ 1.6 kg / dm3
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PH:	10.5 ± 1
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PACKAGES

Tank of 25 kg

Drums of 200 Kg

IBC 1050 Kg

Bulk

STORAGE

The product can be stored for 12 months stored in original sealed packaging and without having been altered. **TEKNA PLAST AE-NS** sensitive to frost but maintains its characteristics when mixed after thawing.

TECHNICAL SERVICE

Detailed technical instructions on the use of products can be obtained directly from the technical staff Tekna Chem Srl.


TEKNA CHEM S.r.l.

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The information contained in this information sheet, while representing the most advanced stage of knowledge, do not exempt the user from the accurate preliminary tests in their own conditions of use and operation. We assume no responsibility for the improper use of the product.