

DESCRIPTION

Technoplast N is a modified lignin sulphonate based, plasticizer admixture that is mostly used in the production of construction site delivered, flowable concrete for all environmental conditions and different concrete classes.

THE CHEMISTRY

Admixtures generally go into reaction only with the binder. When the admixture is added to the concrete, it is absorbed by the particles of the binder. The particles of the binder push each other by electrostatic force. Thus, the desired workability is obtained by less amount of water. Proportional with the decrease of mixture's water amount, mechanic strength increases.

Recommended for use in:

- In concretes with short or long transportation distance where consistency is desired to be increased in the construction site.
- When the concrete leaving the plant with low consistency is desired to be delivered to the construction site with high consistency.
- To improve process rate of the concrete in construction site and reduce work time.

FEATURES and BENEFITS

- Increases the consistency of concrete in construction site by 5-8 cm on average.
- Increases the consistency of concrete by regulating consistency losses during the transportation time.
- Improves workability and quality of concrete without changing its water/cement ratio.
- Does not contain chloride.

APPLICATION PROCEDURE

Technoplast N is poured into transit mixer from its scaled package before the delivery and mixed for at least 3 minutes in the maximum speed. This mixing time is enough to obtain a homogenous mixture.

- Concrete is loaded to transit mixer from the plant with 14 ± 1 cm target consistency. (This target consistency may drop a little in winter).
- The transit mixer operator takes Technoplast N plasticizer admixture drum from the plant as totally full.
- There are two lines on the drum showing one thirds and two-thirds volumes of the drum.
- Considering the vehicles waiting in the line, the transit mixer operator starts to pour Technoplast N admixture into the container of the vehicle, according to the concrete amount (whole drum for 7-9 m³, two-thirds for 4-6 m³, one-third for 2-3 m³) approximately five minutes before pouring the concrete. The container is rotated for three minutes in the maximum speed. At the end of this process, consistency of the concrete increases 6-8 cm to reach S4.
- If the concrete's consistency desired by construction site or delivered to construction site is S3 or more, then the concrete is poured without adding admixture.



TECHNOPLAST N

TECHNICAL DATA SHEET

Complies with ASTM C494 Type A/f and BS 5075

Structure of the Material	Modified Lignin Sulphonate Based
Appearance	Brown
Specific gravity @ 20°C	1.09 - 1.10 kg/l
pH-value	6-7
Alkali content (%)	≤ 10.00 (by mass)
Chloride content (%)	≤ 0.10 (by mass)

DOSAGE

Technoplast N is suggested to be used as 0.9 - 1,1 kg for 100 kg binder (cement-micro silica-fly ash).

PACKAGING

- 20 Kg Pail
- 1100 Kg IBC

SHELF LIFE

18 months if stored according to manufacturer's instructions in unopened container.