ADMIX C-1000/C-1000 NF

Technical Data Sheet

Product Description

Set retarding admixture (at equal consistence) according to EN 934-2+A1, containing a special Xypex Base Mix providing ability to increase water impermeability of concrete by crystalline reaction.

It is a powder additive containing an active chemical base Xypex® Admix. The additive is used during a production of fresh concrete to increase the water impermeability of hardened concrete, at the same time it positively affects the fresh concrete workability and the strength of the hardened concrete. Xypex® Admix C-1000 (NF) has the same crystalline potential in the concrete structure as Xypex® Concentrate and Xypex® Modified coatings.

Recommended for

For concrete structures with high demands on resistance to water and aggressive liquid chemicals.

Product Characterictics

Appearance and Colour:	**non-standard grey powder**
Setting Time - Initial:	**Test mix ≥ control + 90 minutes**
Setting Time - Final:	**Test mix ≤ control + 360 minutes**
Chloride Ion Content:	**≤ 0,1% by mass**
Alkali Content (Na_2O equivalent):	**10% by mass**
Bulk Density:	**1.100 ± 50 kg/m^3**
Water Penetration Depth of Concrete:	**Specimen < Control**
Compressive Strength (for dosage 1% of cement content):	**Specimen > Control**
Resistance of Hardened Concrete (permanent exposure):	**3 - 11 pH**
Filtration Coefficient:	**< 7.10^{-11}**

Dosage Rates

Xypex Admix C-1000 (Regular Grade):	**1 - 3% by weight of cement**
Xypex Admix C-1000 NF (No Fines Grade):	**0.5 - 1.5% by weight of cement**

The addition of XYPEX® ADMIX C-1000 (NF) is compatible with all types of cements according to EN 197-1 ed.2 as well as with standard types of additives for the workability and fresh air content according to EN 934-2+A1.

Please consult the distributor regarding the proposed use and dosing of the XYPEX® ADMIX C-1000 (NF), compatibility with the components of concrete mix, and use in chemically aggressive environment.

Directions for Use

Xypex® Admix C-1000 (NF) can be applied to conventional mixers during standard production of fresh concrete in its natural dry state, either on an aggregate belt, with a small aggregate component, or into empty RMX truck shortly before it is filled with concrete mixture.

It can also be added in the form of a pre-prepared colloidal aqueous solution, using part of the design mix water. Detailed instructions are provided in the Xypex® Technology Guide and the General Specification Guide, which are binding for the warranty.

Curing

Similar as conventional fresh concrete, according to EN 13670-1 + EN 206+A1.

Packaging

Soluble bags, weight 2 – 8 kg, packed in carton paper box.
Metal pail with PE bag, weight 25 kg (20 kg for NF).

Storage

Xypex products must be stored dry at a minimum temperature of 7 ºC. Shelf life is one year when stored in unopened containers under proper conditions.

Health & Safety

The composite mixture is highly alkaline, non-toxic.

During work, the safety instructions and applicable health and safety regulations of the relevant authorities must be observed. Personal protective equipment (clothing, goggles, gloves) should be used. Avoid direct contact with the mixed mixture during application. If skin contact occurs, immediately wash it thoroughly with clean water. If unpleasant feelings continue, immediate medical attention should be sought. If eye contact occurs, immediately wash out with clean water and seek immediate medical attention.

Waste Disposal – Follow the relevant waste handling legislative. Packaging can be stored in a landfill or handed over to a specialist company for disposal.

Detailed information is available on the Material Safety Data Sheet.

Certification

Xypex Admix C-1000 NF is certified as a waterproofing admixture against hydrostatic pressure (DIBt, ETA-18/1129).

Xypex Admix C-1000 and C-1000 NF is certified as a retarding admixture according to EN 934-2. The certification of the product, and regular audits of FPC are carried out by Notified Body No. 1020 TZUS (060-051352).

Continuous production quality control is done by Accredited Testing Laboratory No. 1687 LABBET®.

CE

XYPEX®

Manufacturer: Xypex CE s.r.o., Thákurova 7, Praha, Czech Republic, Phone: +420 233 323 902, Email: info@xypex.cz
Under licence from: Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, British Columbia, Canada V6V 2G9
Distributor: