

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

ETA-18/1129  
of 28 October 2019

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

XYPEX ADMIX C-1000 NF

Product family  
to which the construction product belongs

Waterproofing admixture for concrete

Manufacturer

XYPEX  
Chemical Corporation  
13737 Mayfield Place  
Richmond, British Columbia V6V 2G9  
KANADA

Manufacturing plant

XYPEX  
Chemical Corporation  
13737 Mayfield Place  
Richmond, British Columbia V6V 2G9  
KANADA

XYPEX CE s.r.o.  
Thakurova 7  
16000 Praha 6  
TSCHECHISCHE REPUBLIK

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Malvern, Worcestershire, WR14 1GZ  
GROSSBRITANNIEN

This European Technical Assessment  
contains

6 pages including 1 annex which forms an integral part of  
this assessment

This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

EAD 260026-00-0301

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## Specific part

### 1 Technical description of the product

The waterproofing admixture for concrete "XYPEX ADMIX C-1000 NF" is a powder. It reduces the water penetration into the concrete and increases the water impermeability of the concrete.

Active chemicals react with the moisture in fresh concrete and with the by-products of cement hydration to cause a catalytic reaction. This reaction generates a non-soluble crystalline formation throughout the pores and capillary tracts of the concrete that permanently seals the concrete and prevents the penetration of water from any direction.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document

The waterproofing admixture "XYPEX ADMIX C-1000 NF" is intended to be used for preparation of concrete, mortar and other mixes for construction and for the manufacturing of precast construction products.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of concrete incorporating the waterproofing admixture "XYPEX ADMIX C-1000 NF" of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### 3 Performance of the product and references to the methods used for its assessment

**Table 1 Mechanical resistance and stability (BWR 1)**

Essential characteristic	Performance
Homogeneity	No segregation
Total chlorine	≤ 0,10 % by mass
Water soluble chloride	≤ 0,10 % by mass
Alkali content (Na <sub>2</sub> O equivalent)	≤ 8,5 % by mass
Corrosion behaviour <sup>1</sup>	≤ 10 µA/cm <sup>2</sup>
Air content and bulk density of fresh concrete <sup>2</sup>	See Annex A, Table 2 Test mix ≤ 2 % by volume above control mix
Compressive strength <sup>2</sup>	See Annex A, Table 3 Test mix ≥ 85 % of control mix
Increase of water impermeability of concrete <sup>2</sup>	See Annex A, Table 4
Freeze-thaw resistance <sup>3</sup>	No performance assessed
Freeze-thaw resistance with de-icing agent <sup>3</sup> (Method 1: CDF-Procedure)	See Annex A, Table 5
<sup>1</sup> : 1,3 times maximum recommended dosage: 19,5 g/kg cement <sup>2</sup> : compliance dosage: 15 g/kg cement <sup>3</sup> : maximum recommended dosage: 15 g/kg cement	

### 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 260026-00-0301 the applicable European legal act is: 1999/469/EC(EU).

The system to be applied is: 2+

### 5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 28 October 2019 by Deutsches Institut für Bautechnik

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*beglaubigt:*  
Bahlmann