


Crystalline admixture - CE EN 934-2 :T9

- Integral waterproofing system for Concrete
- Improves concrete properties
- Liquid – easy to use
- Is permanent
- Is Suitable for all concrete exposure classes EN206-1

Chloride ion content	≤ 0.1 M %	 0836
Alkali content	≤ 10.5 M %	
Corrosion behaviour	≤ 10 µA/cm ²	Vandex Isoliermittel-GmbH Industriestr. 21 DE-21493 Schwarzenbek 19 652 EN 934-2:2009+A1:2012 Water resisting admixture for concrete
Compressive strength at 28 days:	≥ 85% of control mix	
Air content	≤ 2% by volume above control mix	
Capillary absorption		
7 d / 7 d	≤ 50% by mass of control mix	
90 d / 28 d	≤ 60% by mass of control mix	
Dangerous substances	cf. Safety Data Sheet REACH	

PRODUCT DESCRIPTION

VANDEX AM 10 LIQUID is an integral crystalline concrete admixture, CE marked under EN 934-2:T9. VANDEX AM 10 LIQUID is specifically formulated to be a Water resisting admixture for concrete which interacts with concrete capillary pore structures and becomes a permanent part of the concrete matrix. VANDEX AM 10 LIQUID can be used in above- and below-grade applications. Active chemicals combine with the free lime and moisture present in the capillary tracts and pores, to form insoluble crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete. However, the concrete will still allow the passage of water vapour through the structure (i.e. the concrete remains "breathable").

AREAS OF APPLICATION

- waste treatment facilities
- foundations and basements
- marine structures
- precast concrete
- tunnels and subways
- dams and water reservoirs
- manholes
- underground vaults
- parking structures
- swimming pools
- water containment structures

PROPERTIES

- a water resisting concrete admixture EN 934-2:T9
- reduces water penetration
- no adverse effect on compressive strength or setting time with Portland cement
- easy to use liquid material
- negligible effect on working time, increasing flexibility
- very economical compared to other methods
- vapour diffusion in concrete is not blocked

GUIDELINES FOR USE

VANDEX AM 10 LIQUID can be used in drum mixed and central batched concrete production. It should be added during the initial batching sequence preferably as the aggregate is being added to the mixing vessel.

DOSAGE

VANDEX AM 10 LIQUID is dosed at approximately 2% by weight of cementitious material (BWC) depending on application. Please consult your local Vandex representative for dosage recommendations.

GENERAL REMARKS

- VANDEX AM 10 LIQUID should be added to the aggregate as it is being batched or to the initial batching sequence.
- In all cases, consult the Safety Data Sheet before use.
- Preliminary testing is encouraged to ensure concrete performance of all project concrete ingredients.
- Trial mixes should be carried out under project conditions to confirm concrete performance.

PACKAGING

10 kg jerrycan. Others on request.

STORAGE

When stored in unopened, undamaged original packaging, shelf life is 12 months.

HEALTH AND SAFETY

Please refer to Safety Data Sheet on www.vandex.com.

DEFINITION NAME OF ADMIXTURE PERFORMANCE REQUIREMENTS

Water reducing/plasticizing admixtures	Table 2
High range water reducing/superplasticizing admixtures	Table 3.1 Table 3.2
Water retaining admixtures	Table 4
Air entraining admixture	Table 5
Set accelerating admixtures	Table 6
Hardening accelerating admixtures	Table 7
Set retarding admixtures	Table 8
Water resisting admixtures	Table 9
Set retarding/water reducing/plasticizing admixtures	Table 10
Set retarding/high range water reducing/ superplasticizing admixtures	Table 11.1 Table 11.2
Set accelerating/water reducing/plasticizing admixtures	Table 12
Viscosity modifying admixture	Table 13

TECHNICAL DATA OUTSIDE SCOPE OF CE			
Test type	Method	Test parameters	Performance relative to control
Consistence Slump	EN 12350-2	70 mm	No change
Slump after 30 min	EN 12350-2	50 mm	No change
Plastic density	EN 12350-6	2372 Kg/m ³	No change
Compressive strength compared to control mix	EN 12390-3	Cubes MPa ≥ 85% of control mix	≥ 90% of control mix
Water soluble chloride	EN 934-1	Content	0.01 M %
Air Content	EN 12350-7	≤ 2 % by volume above control mix	Passed - No change
Alkali content	EN 480-12	≤ declared maximum value	2.41 M %
Corrosion Susceptibility of Reinforcing Steel	EN 480-14	No corrosion	No change
Capillary absorption	EN 480-5	7 days ≤ 50 % by mass of control mix	12 %
		90 days ≤ 60 % by mass of control mix	36 %

All data is averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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