

## Crystalline waterproofing admixture CE EN 934-2 :T9

- integral permanent system
- improving concrete properties
- dry powder - easy to use

|                                  |                                  |   |
|----------------------------------|----------------------------------|---|
| Chloride ion content             | ≤ 0.1 M %                        | CE<br>0836  |
| Alkali content                   | ≤ 10.5 M %                       |   |
| Corrosion behaviour              | ≤ 10 µA/cm <sup>2</sup>          | Vandex Isoliermittel-GmbH<br>Industriestr. 21<br>DE-21493 Schwarzenbek<br>19<br>678<br>EN 934-2:2009+A1:2012<br>Water resisting admixture for<br>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 is an integral crystalline waterproofing concrete admixture powder CE marked under EN 934-2: T9. VANDEX AM 10 is specifically formulated to interact with concrete capillary pore structures and becomes a permanent part of the concrete matrix. VANDEX AM 10 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 will still be able to "breathe").

### 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

- 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 powdered 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 can be used in drum mixed and central batched concrete applications. It should be added to the initial batching sequence preferably as the aggregate is being added to the mixing vessel. Concrete should be

mixed a minimum of 2-3 minutes, at normal mixing speed, after all concrete constituents have been batched to ensure thorough dispersion of all materials. VANDEX AM 10 should not be added to the concrete mixture after the cementitious ingredients have been introduced.

### DOSAGE

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

### GENERAL REMARKS

- VANDEX AM 10 should be added to the aggregate as it is being batched or to the initial batching sequence.
- Do not add VANDEX AM 10 at the end of the batching sequence. Adding VANDEX AM 10 to the end of the batching sequence may result in extended setting characteristics or premature stiffening of the concrete.
- VANDEX AM 10 may require a slight increase in air entrainment dosage.
- In all cases, consult the Safety Data Sheet before use.
- Preliminary testing is encouraged to ensure concrete performance of all project concrete ingredients.
- Setting times may be slightly extended depending on cement chemistry. However, under normal conditions, VANDEX AM 10 will provide a normal set concrete. Concrete containing VANDEX AM 10 may develop higher ultimate strengths than plain concrete. Trial mixes should be carried out under project conditions to confirm concrete performance.

### PACKAGING

10 kg pails; 20 kg bags. Others on request.

### STORAGE

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

### HEALTH AND SAFETY

Please refer to Safety Data Sheet on [www.vandex.com](http://www.vandex.com).

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.