

# EUCON VANDEX AM-10

## Additive for impermeabilization by crystallization

### DESCRIPTION

Eucon Vandex® AM-10 is an impermeabilizing additive that functions by crystallization, specially formulated to interact with the capillary interstices of the concrete, creating an impermeabilization system that remains permanently as part of the concrete matrix. Eucon Vandex® AM-10 can be used for applications in elevated as well as sunken concrete structures.

### TECHNICAL CHARACTERISTICS OF THE PRODUCTS

Tests	Method	Test parameters	Results
Chemical base	-	-	Cement patented composite + others
Aspect	-	-	Grey powder
Penetration of water	DIN 1048	Pressure of 53 w.c.m	40% reduction
Permeability of water	CDR C48-92	Pressure of 141 w.c.m	> 70% reduction
Capillary absorption	ASTM C-1585	-	> 40% reduction
Resistance to compression of concrete	ASTM C-39	-	Equal or up to 8% incremente according to composition and materials used
Permeability to chloride ion	ASTM C-1202	-	10% reduction
Retraction of concrete	ASTM C-157	-	Up to 20% reduction

### ADVANTAGES

- Reduces or eliminates penetration of water.
- No adverse effects on resistance to compression.
- Minimal effect on workability of the concrete.
- Impermeabilization of interior or exterior of the concrete (negative or positive pressure).
- Easy to use.
- Improves chemical resistance of the concrete.
- Can seal static fissures of up to 0.4mm.

### UTILIZATION

- Sewage or water treatment structures.
- Foundations and underground structures.
- Tunnels and underground worksites.
- Barrages and hydraulic structures.
- Drainage.
- Underground garages/parking spaces.
- Water containment structures.

For other usage applications consult our Technical Department ([sac@viapol.com.br](mailto:sac@viapol.com.br))

### USAGE INSTRUCTIONS

The usual dosage of **Eucon Vandex® AM-10** is 1% in relation to the cement mass in the composition of the concrete. For other applications or more appropriate usage doses consult our Technical Department ([sac@viapol.com.br](mailto:sac@viapol.com.br)).

### Dosage:

In the case of dry dosing, add the **Eucon Vandex® AM-10** together with 20% to 30% of the aggregates and 60% to 70% of the water ratio. Mix for at least 3 minutes to achieve a thorough dispersion of the **Eucon Vandex® AM-10**. Then add the balance of the materials in the concrete formulation and continue with standard mixing.

When moist mixing is to be conducted, first add **Eucon Vandex® AM-10** in the proportion of 20kg (one bag) to 10 liters of water, forming a fluid mix. Pour the mix into the cement mixer truck and add the rest of the materials of the concrete formulation. Mix the concrete for the interval necessary to achieve good homogenization (from 5 to 10 minutes).

For use in the on-site cement mixer, add the **Eucon Vandex® AM-10** initially together with the aggregates (gravel and sand) and mix for 5 minutes. Then add cement and water according to the formulation ratio.

### Special recommendations:

Preliminary testing is recommended to ensure the best performance of the concrete with its components because the workability interval of the concrete may be altered. For more detailed information concerning the compatibility of **Eucon Vandex® AM-10**, consult our Technical Department.

The use of **Eucon Vandex® AM-10** may require a small increase in the dosing of the air incorporating additive in concrete with incorporated air.

In all cases consult the safety information sheet prior to using the product.

Setting times may increase slightly depending on the composition of the cement. To ensure the performance of the concrete, prior testing must be conducted.

If a reduced slump occurs due to the addition of **Eucon Vandex® AM-10**, compensate by adding superplasticizer or plasticizer to ensure a correct water-to-cement ratio.

## CONSUMPTION

Product	Consumption
Eucon Vandex AM-10	1% of weight of cement in composition of concrete

**Note:** for other uses or usage dosing consult the Technical Department (sac@viapol.com.br)

## PACKAGING / STACKING

20 kg bag. Stack up to 4 units maximum.

Note: Stack the bags on pallets to prevent direct contact with the floor/ground.

## VALIDITY / STORAGE

Twelve (12) months from date of manufacture, in original intact packaging, in a covered, dry, ventilated location, far from sources of heat. Maximum recommended storage temperature: 30°C.

## SAFETY RECOMMENDATIONS

Prior to starting work consult the SISCP (Safety Information Sheet for Chemical Products), accessible on our site: [www.viapol.com.br](http://www.viapol.com.br)

Use adequate PPE such as gloves, facial protection mask, waterproof boots and safety eyewear.

Store the product out of the reach of children and domestic animals.

In case of contact with the skin, wash the area with neutral soap and water.

In case of contact with the eyes, wash copiously with potable water for at least 15 minutes and seek medical assistance.

In the event of irritation of the skin, eyes or ingestion of the product, seek medical assistance, describing the type of product involved.

In the case of ingestion, do not induce vomiting and seek medical assistance immediately.

## ENVIRONMENTAL PRECAUTIONS

Dispose of waste materials and residuals in an appropriate location, in accordance with regulations arising from local environmental legislation in force and the nature of the material or products. Do not reuse empty packaging.

For greater details, consult the SISCP for the products cited in this datasheet on our website: [www.viapol.com.br](http://www.viapol.com.br)

*Note: The information contained in this datasheet is based on our best knowledge and is provided for your help and guidance. We need to point out that the performance of our products depends on the preparation condition of the surface and the storage and application of the product, factors not subject to our control. The consumption of the products in practice depends on the application technique, the condition of the equipment used, and the surface to be coated. We do not, therefore, accept any responsibility of any nature regarding the consumption and performance of our products arising from inadequate storage or use of the products. For further clarification please consult our Technical Department.*

*Viapol reserves the right to alter the specifications and/or information contained in this datasheet without prior notice.*