

# VIAPLUS 5000

## Flexible Waterproofing Coating

### DESCRIPTION

Flexible waterproofing coating, with dual components based on thermoplastic resins and additive-enriched cements which, when combined, result in a modified polymer membrane, with cement of excellent resistance and waterproofing properties.

### TECHNICAL CHARACTERISTICS OF THE PRODUCTS

Characteristics	Component A	Component B
Aspect	Liquid	Powder
Color	White	Grey
Aspect of mixture (A+B)	Grey viscous liquid	
Tests	Results	
Min/max application temperature	10°C to 35°C	
Minimum interval between coats	4 to 8 hours	
Total cure time	7 days	
Maximum useful life of mixture (A+B)	40 minutes	
Water tightness at positive pressure	0.6 MPa	

### REFERENCE NORMS

ABNT NBR 15885:2010 – Acrylic Polymer membrane with or without cement, for waterproofing.  
 ABNT NBR 9575:2010 – Waterproofing – Systems and Projects.  
 ABNT NBR 9574:2008 – Execution of Waterproofing.

### ADVANTAGES

- Product easily applied with broad brush or broom.
- Excellent flexibility performance.
- Can be applied on concrete, masonry and mortar surfaces.
- Does not alter potability of water, is non-toxic and colorless.
- Resistant to high positive hydrostatic pressure.
- Adjusts to structural shifts and fissures foreseen in Brazilian Norms.

### UTILIZATION

- Concrete potable water reservoir, supported or raised. Use **Viaplus 1000** system or **Viaplus® Top** and **Viaplus 5000** structured with **Mantex** polyester netting.

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

### USAGE INSTRUCTIONS

#### Preparation of the surface

The substrate must be clean, with no loose or unattached parts, laitance, oils, release agents or any type of substance/material that may hinder adherence. When the structure is of concrete, we recommend cleaning with a steel brush and water or high pressure water jet.

The concreting voids and flaws should be treated with cement and sand mortar, ratio 1:3, kneaded with a solution of water and **Viafix** adhesive emulsion in a 2:1 proportion by volume or with **Eucorepair VI 60** or **Eucorepair V50**.

The pipes must be **chumbadas** (treated?) with **Viapoxi Adesivo Tix** in the concreting phase, as well as fixed with flanges and counter-flanges for a perfect finish of the waterproofing. The pipes embedded in concrete must be seamless.

Apply 2 coats of **Viaplus 1000** or **Viaplus Top** on the moist substrate and allow to dry for 2 to 6 hours between coats (see specific catalogues). The purpose of this application is the sealing and stuccoing of the substrate pores.

### **Preparation of the product**

The product is supplied as 2 components:

Component A (resin) – Thermoplastic resin with special additives.

Component B (grey powder) – Special cements, waterproofing and plasticizing additives.

Slowly add component B (grey powder) to component A (resin) and mix mechanically for at least 3 minutes, dissolving any lumps that may form so as to obtain a homogeneous paste.

Once components A and B have been mixed, the mixture has a maximum useful life of 40 minutes at an ambient temperature of 25 °C. We do not recommend use of the mixture beyond this interval.

Under no circumstances should any water be added to the **Viaplus 5000** mixture.

### **Application of the product**

Mix the product constantly during application. Apply **Viaplus 5000** with a rectangular brush or broom.

After the first coat allow to dry for a minimum of 4 hours. Apply subsequent coats in a transverse manner, in uniform layers, following a similar time frame, or, depending on ambient temperature, until the specified consumption is reached. The interval between coats is 4 to 8 hours.

Between the first and second coats, reinforce the coating by incorporating a **Resinated Mantex** polyester net.

Allow the product to cure for a minimum of 7 days before conducting the water tightness test and implementing the mechanical protection.

Waterproof the ceilings of reservoirs with **Viapoxi Coat**.

### **Recommendations**

After the total cure of the product in reservoirs, wash with soap and water using a broom prior to the first water load for human or animal consumption.

Prior to the application of the waterproofing system in reservoirs, conduct the water loading test for a minimum of 72 hours to allow the proper accommodation of the structure. Check for the appearance of possible cracks and fissures that may occur with a total load.

We recommend the use of mechanical protection mortar on the floor of water reservoirs due to the cleaning services to which these structures are subjected. .

Do not exceed an interval of 3 hours between applications of **Viaplus 1000** or **Viaplus Top** and **Viaplus 5000** in order to avoid delamination between the layers of the products.

Reservoirs should have structural truss at the junction of floor and walls.

## MECHANICAL PROTECTION

### Horizontal

Execute the mechanical protection mortar of cement and sand, proportion 1:3, levelled to a minimum thickness of 3 cm.

### Vertical

Over the waterproofing, execute cement and sand roughcast, ratio 1:2, followed by execution of evened cement and medium sand mortar, ratio 1:3, using kneading water composed of 1 volume of **Viafix®** adhesive emulsion and 2 volumes of water.

## USAGE RESTRICTIONS

### **Do not use the product for:**

- Structures subject to fissurization .
- On regularization mass that contains lime or water repellent. If necessary, substitute with **Viacal®**.
- Areas exposed to adverse weather conditions.
- Product formulated for potable water reservoir or water treatment station, do not use when pH is less than 6.0.

## CONSUMPTION

Estimated consumption is 3.5 kg/m<sup>2</sup>.

## PACKAGING / STACKING

Packaging	Stacking
Box 18 kg	Maximum 4 units

**Obs.:** Stack packaging on Madeirit to avoid contact with floor or soil.

## VALIDITY / STORAGE

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

## SAFETY RECOMMENDATIONS

Prior to starting work consult the SSCP (Safety Information Sheet for Chemical Products) of the products, available 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.

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

In case of contact with the skin, wash the region 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 eventuality of irritation of the skin, the eyes or ingestion of the product, seek medical assistance, citing the type of product involved.

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

## ENVIRONMENTAL PRECAUTIONS

Do not discard products or packaging carelessly. Dispose of materials/residues in an appropriate location in accordance with regulations based on local environmental legislation in force. Do not reuse empty packaging.

For more details, consult the safety recommendation sheet (SISCP) for **Viafix, Viacal, Viaplus 1000, Viaplus Top, Eucorepair V50, Eucorepair VI 60, Pó 2, Resinated Mantex and Monopol PU 25 PLUS** or for the products cited and our site [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.*