

VIAPLUS® 1000

Cement-based waterproof coating

DESCRIPTION

Waterproofing, semi-flexible, dual component (A+B) coating, comprised of special cements, mineral additives and polymers, with excellent 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	2 to 6 hours	
Total cure time	5 days	
	Indoor environment: 7 days	
Maximum useful life of mixture (A+B)	40 minutes	
Water tightness at negative pressure	0.1 MPa	
Water tightness at positive pressure	0.6 MPa	
Tests	Results	Norms
Resistance to adhesion on concrete - minimum	Minimum 0.3 MPa	ABNT NBR 13528
Resistance to adhesion on masonry - minimum	Minimum 0.3 MPa	ABNT NBR 13528

REFERENCE NORMS

ABNT NBR 11.905:2015 – Waterproofing system composed of waterproofing cement and polymers.
 ABNT NBR 9575:2010 – Waterproofing – Systems and Projects.
 ABNT NBR 9574:2008 – Execution of Waterproofing.

ADVANTAGES

- Resistant to high hydrostatic pressure, positive and negative.
- Resists up to 60 w.c.m (water column meters)
- Excellent adhesion and mechanical resistance
- Does not alter potability of water, is non-toxic and odorless
- Easy application with broad brush or broom
- Can be applied on concrete, masonry and mortar surfaces
- Permits direct application of coatings, without the need for mechanical protection in the case of bathrooms, kitchens and laundry rooms

UTILIZATION

- Waterproofing of underground areas, curtain walls, elevator shafts.
- Concrete prop walls, foundation beams, foundations, bases, internal and external walls.

- Sunken water reservoir.
- Steam sauna.
- Cold floors in contact with the ground.
- Structures subject to infiltration from the water table.
- Dual system **Viaplus® 1000** and **Viaplus® 7000** or **Viaplus® 5000** structured with **Mantex®** polyester netting for supported and raised potable water reservoirs.
- Dual system **Viaplus® 1000** and **Viaplus® 7000** for sunken concrete swimming pools.
- Damp and dampness prone areas in contact with the ground, like bathrooms, kitchens, laundry rooms, service areas and lavabos.

For other utilizations consult the Technical Department (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 substance/material that may hinder adhesion. In the case of concrete structures, we recommend washing with a steel brush and water or high pressure water jet.

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

When gushes of water occur in structures under the influence of the water table, implement buffering with Pó2 ultra rapid-setting cement after prior preparation of the location.

Preparation of the product

The product is supplied in 2 components, fractioned for application by the painting procedure:

Component A (resin) – Emulsified acrylic polymers;

Component B (grey powder) – Special cements, impermeabilizing additives, plasticizers and mineral additives.

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

After 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.

Application on coating (composition by volume): 1 part of component A (resin) to 3 parts of component B (powder). Use a trowel or a water rake. For use of a trowel, first apply a coating with a broad brush, using brush strokes in one direction.

Under no circumstances should any water be added to the **Viaplus® 1000** mixture.

Tools

Broad brush or horsehair broom.

Application of the product

Moisten the surface and apply the necessary number of coats for each case, as specified in the consumption table.

The coats are to be applied in transverse directions, in uniform layers, at intervals of 2 to 6 hours depending on ambient temperature, until the specified consumption has been reached.

In critical regions, such as around drainpipes, caulk with **Monopol® Construction** mastic (sealant) after the **Viaplus® 1000** has dried completely.

For concreting joints and **meias-canais**, reinforce the **Viaplus® 1000** with **Mantex® Resinated** polyester net between the first and second coats.

Spread dry, sifted sand before the last coat of **Viaplus® 1000** has dried for better anchoring of the mechanical protection mortar or final coat.

Wait for the total cure of the product for a minimum of 5 days prior to conducting the water tightness test and execution of mechanical protection. In indoor environments, the minimum cure time is 7 days..

In outdoor areas or areas exposed to direct sunlight, hydration of **Viaplus® 1000** should occur for a minimum of 72 hours.

Recommendations

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

In the case of sunken, concrete reservoirs and swimming pools, prior to proceeding with waterproofing, carry out the water load test for a minimum of 72 hours to allow the proper accommodation of the structure. Look for possible cracks and fissures that may expand when total loading occurs.

We recommend the use of mechanical protection mortar on flooring for water reservoirs, in view of the cleaning services to which these areas are subjected.

If the application of the final coat occurs over **Viaplus® 1000** or **Viaplus® Top** waterproofing, use AC III adhesive mortar.

MECHANICAL PROTECTION

Horizontal

Execute the mechanical protection mortar of cement and sand, proportion 1:3, evened 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

Viaplus® 1000	Consumption	
	Minimum	Maximum
Soil moisture or percolation water	2 kg/m ²	3 kg/m ²
Positive hydrostatic pressure minimum 25 w.c.m.	3 kg/m ²	4 kg/m ²
Negative hydrostatic pressure up to 10 w.c.m.	4 kg/m ²	5 kg/m ²

Note: Consumption may vary depending on type of substrate.

Approximate Yield

Viaplus® 1000	Packaging	Yield*	
		Minimum	Maximum
Soil moisture or percolation water	Box 18 kg	9.0 m ²	6.0 m ²
Positive hydrostatic pressure min. 25 w.c.m.	Box 18 kg	6.0 m ²	4.5 m ²
Negative hydrostatic pressure up to 10 w.c.m.	Box 18 kg	4.5 m ²	3.6 m ²

Note: Consumption may vary depending on type of substrate.

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: 25°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

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, please consult the safety sheet (SISCP) for **Viaplus® 1000, Viafix®, Viacal®, Viaplus® 7000 – fibers, Viaplus® 5000, EucoRepair® V50, EucoRepair VI 60, Pó® 2, Resinated Mantex® and Monopol® Construction** or the products cited and our site at 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.