

Waterproofing Flexible Polymeric **BALDRAN® PLUS 5000**

BALDRAN® PLUS 5000 is a bicomponent waterproofing system having an acrylic-based emulsion, cement and special additives which when mixed form a flexible polymeric mortar which is waterproof and has excellent adhesion to the substrate. The product offers high performance to seal a positive hydrostatic pressure. The product is non-toxic and does not alter the potability of water.

SEGMENTS OF USE

Waterproofing of water towers and potable water reservoirs among others.

SURFACE PREPARATION

The surface must be clean and complete, free of oil, grease, paint, curing agent, release agents and any other elements that may impair adhesion. The cleaning can be executed with a high-pressure hose or brush with hard bristles. In case of fissures up to 0.3 mm, we recommend the application of the product **Reisflex® PU** for correction before the waterproofing. In some cases a bridge of adherence has to be created. Sharp edges must be rounded.

PRODUCT PREPARATION

Mix component B (powder) with component A (liquid) in an adequate container mechanically for 3 minutes or manually for 5 minutes until it results in a homogeneous compound free of lumps. In large quantities, use concrete mixer. Once the components are mixed the mixture must be used within 40 minutes. **DO NOT MIX WITH WATER.**

PRODUCT APPLICATION

Before beginning the application, moisten the surface with water avoiding puddles. **BALDRAN® PLUS 5000** should be applied with brushes or brooms spreading the product constantly. The product should be applied on uniform layers at right angles. After applying the first layer, wait from 4 to 8 hours for the second layer. Between the 2nd and 3rd layers, reinforce with a 2x2 mm polyester mesh. Wait 7 days to test for leaks.

If **BALDRAN® PLUS 5000** is used on horizontal surfaces, then a minimum 3 cm layer of concrete as mechanical protection must be applied over: batch base, cement + sand = 1/3.

RECOMMENDATIONS

- Decontrol the area after 3 days
- For open areas or areas under the sun, hydrate for a minimum of 3 consecutive days
- After the cure, test for water-tightness with water for a minimum period of 72 hours
- Clean the tools with water

NEGATIVE WATERPROOFING

In case of negative pressure, one should apply **BALDRAN® PLUS 1000** and after the cure, apply **BALDRAN® PLUS 5000**.

When applying **BALDRAN® Plus 1000**, the interval between one layer and another should be between 2 and 4 hours.

BENEFITS

- Avoids the formation of mold and moisture
- Easy application

- Resistant to water pressure
- Excellent adherence without necessity of roughcast
- Excellent barrier against sulfates and chlorates

TECHNICAL CHARACTERISTICS

Baldran® Plus 5000 Part "A"	Baldran® Plus 5000 Part "B"
Form: viscous liquid	Aspect: powder
Color: white	Color: gray
Density: at 25C (77F): 1 to 1.07	
pH: 7 to 9	
Brookfield Viscosity: 100 to 400 Cps	Package: 7 kg and 14 kg
Package: 5 kg	
Time of application: 40 minutes	
Temperature of application: 5C to 35C (41F to 95F)	
Package: 18 kg	

TECHNICAL COMPLIANCE

Impermeability	NBR 11905
Potability	NBR 12170
Waterproofing System & project	NBR 9575:2010
Execution	NBR 9574:2008

YIELD

BALDRAN® PLUS 5000: 3,5 Kg/m² with 2 layers. The yield can be altered depending on the hydrostatic pressure (positive or negative); in this case consult our technical department.

CLEANLINESS AND SAFETY

Use protective glasses and rubber gloves. Direct contact with the skin should be avoided (can cause irritation). In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor. Keep out of the reach of children and animals.

STORAGE

BALDRAN® PLUS 5000 should be stored in dry and ventilated location at temperature below 77°F (25°C).

WARRANTY

Reis e Reis guarantees quality and exemption of manufacturing defects, provided that the product is correctly applied, respecting the conditions of this Technical Data Sheet. According to NBR-11905 regulation, the product must be used in static structures, or in other words, free of movement structures. If cracks occur in the structure, consult the engineer to make the structural correction and then reapply the product. **THIS WARRANTY DOES NOT INCLUDE DAMAGE CAUSED BY STRUCTURAL PROBLEMS.**

VALIDITY: 12 months.