

Water Disposal System

RR BARRIER® TAP – Waterproofing

PRODUTO

RR BARRIER®TAP is a cement-based quick-set waterproofing mortar for the combination of additives and high-tech compounds that crystallizes when applied, making it an integral part of the concrete, filling the capillaries, forming insoluble and permanent crystals that multiply in contact with water, forming a permanent barrier, allowing only the passage of water vapor causing the concrete to breathe. When properly applied by qualified professionals it buffers and stops the passage of water, protecting and prolonging the life of the concrete. It must be used on the negative or positive part of the surfaces to stop infiltrations caused by hydrostatic pressure. Unlike other products, RR BARRIER®TAP reacts chemically when the powder mixes with the water and may take a few days to block the passage of water depending on the environment and temperature. This system is a combination of two products (RR BARRIER®TAP and RR BARRIER®CRISTAL). It is a non-toxic product and does not alter the potability of water

SEGMENT OF USE

- Reinforced concrete repairs
- Concrete cracks and joints
- Segregated concrete repairs (hollowess) etc.

SURFACE PREPARATION FOR APPLICATION

The concrete should have its structurally sound, clean and rough surface with its open porosity for application of the product. The cleanliness must be strict to be totally free of: powder, curing compound, release agents, cement, oil, grease and substance residues that may prevent adhesion. For best cleaning performance we recommend the use of high pressure hydro blasting, steel brush or any other suitable cleaning process.

FILLINGS AND GASKETS: shall be open in the form of gutters having a width of 25 mm and a depth of 25 mm.

TENSION HOLES: must be well scarified.

CONCRETE SEGREGATED (HOLLOWESS): remove all segregated concrete by means of manual shaping or gavel until it reaches an integral and firm surface. Before starting the application we recommend cleaning with water by removing dust and loose particles. If all capsules are to be packaged, they should be applied as a RR BARRIER® CRISTAL adhesion bridge in the form of a slurry paste and when it is sticky, initiate RR BARRIER®TAP.

In case of applications on water slope, consult technical manual for these applications. It is not recommended to be applied on moving joints. Do not apply in temperatures below 5°C.

PRODUCT PREPARATION

RR BARRIER®TAP should be mixed in clean water in a suitable container until a consistency of firm mortar is obtained for spatula application. Consider mixing ratio 1 part water to 3.3 parts RR BARRIER®TAP powder by weight. Mix only what is to be used and consider (30 seconds) to grind and (30 to 90 seconds) to apply.

EXAMPLE OF MIX RATIO

Powder	Water
20 Kg	6 Liters
10 Kg	3 Liters
5 Kg	1,5 Liters
2 Kg	0,6 Liters
1 Kg	0,3 Liters

BENEFITS

- Extremely fast drying;
- High initial resistance;
- Can be mixed with water or dry;
- Permanent packing without passing water;
- Can be applied in negative or positive;
- Withstands high hydrostatic pressures;
- Easy application;
- Can be applied on damp concrete;
- Allows concrete to breathe, preventing steam build-up;
- Does not change the potability of water;
- Protects armor;
- Does not emit volatile gases (VOC);
- It is not toxic.

CHARACTERISTICS

Appearance	gray powder
Density	1,30 Kg/L (fresh mortar)
Density	1,15 Kg/L (powder before preparation)
Mixing time	30 seconds
Workability time	30 to 90 seconds
Final Take	1 to 3 minutes
Yield	1 Kg = 770cm ³
Packaging	Buckets with 4 and 22 kg

PERFORMANCE OF THE MASS

Time	Compressive Strength Mpa (ASTM C-109)	Tensile Strength Mpa (ASTM C-190)
1 day	12	2,35
3 days	17	3,85
7 days	43	5,35
28 days	49	6,5

HEALTH AND SAFETY

Use protective glasses and rubber gloves. Direct contact with the skin should be avoided. In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor and inform the type of product.

STORAGE

RR BARRIER®TAP should be stored in a dry, covered and ventilated location at around.

VALIDITY

12 months