HIDROFIX

Mortar for sealing swimming pools, tanks, lift shafts, etc.
Maximum flexibility and safety.
Resists negative pressures.

◆ **WATERPROOF GUARANTEE:**

Whether a pool, tank, etc. is waterproof is the **SOLE RESPONSIBILITY** of its concrete structure. Its construction, stability, dimensions, the quality of the concrete, its placement, the formation of cracks, etc. are not the responsibility of waterproofing with **HIDROFIX**. **HIDROFIX** is used to waterproof stable structures and perfectly weathers the formation of small fissures in the structure, but if cracks develop in the concrete, the same cracks will also break the **HIDROFIX**. That is why we recommend ALWAYS testing **whether your structure is waterproof** to ensure that the concrete is structurally sound before applying **HIDROFIX**.

FIELDS OF APPLICATION

1) **Waterproofing swimming pools**, ponds, tanks, basements, etc.
2) Waterproofing surfaces with **micro-fissures**.
3) Pre-fabricated structures and/or **concrete** blocks.
4) Protecting the **outdoor walls** of buildings.
5) **Containing walls** with a protective geotextile sheet.
6) Tunnels, irrigation ditches and **channels**.
7) Lift cabs. Waterproof, even under hydrostatic pressure (e.g. below the water table).
8) Waterproofing bathrooms, showers, balconies, etc. for laying ceramic tile with **FIXSET FLEX** or **TECNOCOL FLEX** or **TECNOJUNTA FLEX**.

TECHNICAL SPECIFICATIONS

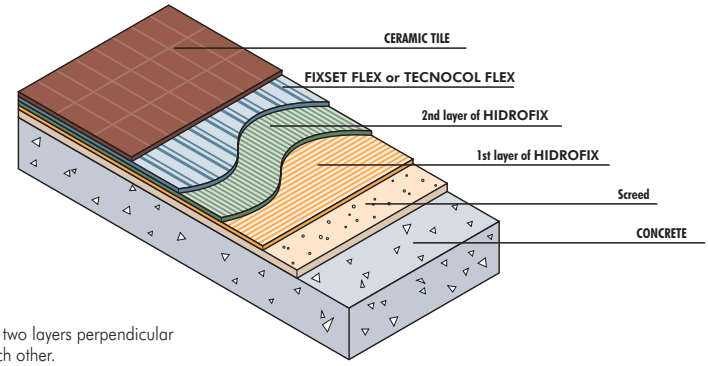
HIDROFIX is a cementitious, single-component mortar that protects and waterproofs all sorts of brick, concrete and mortar joints from water and humidity. Its flexible nature allows you to cover micro-fissures that form in concrete structures subject to deformation. It is set apart by one-of-a-kind characteristics, such as:

- ◆ Great adherence to the substrate.
- ◆ Fully waterproof.
- ◆ Ceramic finish possible.
- ◆ No shrinkage.
- ◆ Easy to apply with a paintbrush, fine trowel or roller.
- ◆ Considerable mechanical resistance.
- ◆ Resists the effects of saline and slightly acidic water, CO^2, SO^2, etc. pollution

HOW TO USE

1st step: the substrates should be resistant, solid and free of dust, paint, wax, release agents, oils and grease. They should also be perfectly setting.

2nd step: before applying **HIDROFIX**, we recommend applying **BANDA IMPERMEABLE 120/70** or **FIX-BANDA** to all corners, vertices and drains to ensure that such critical points are fully sealed. **FIX-BANDA** is an ultra elastic butyl that is easy to apply: all you have to do is remove the protective paper.



Apply two layers perpendicular to each other.

3rd step: wet the surface until it is saturated, eliminating excess water and avoiding the formation of pools of water.

4th step: to prepare the mortar, mix the full sack of 25 kg with 6.0 litres of clean water. **The mixture must be mixed slowly** with an electric mixer to keep air from getting into it. The resulting mixture should be fully homogenous.

5th step: apply a **1st layer** of **HIDROFIX** with a **paintbrush, flat trowel**, or a pneumatic spray system. This layer **should not be more than 2 mm** thick. **We recommend** placing a **NET-HIDRO-80** 5x5 mm fibre-glass mesh on top of this **1st layer while it is still fresh**. This mesh notably improves the sealant's traction resistance.

6th step: allow the 1st layer to dry for approx.. 4 hours.

7th step: apply a **2nd layer** of **HIDROFIX perpendicular to the first**.

ATTENTION: we recommend applying at least 2 layers of 1 mm each in swimming pools or tanks that will contain water with a positive pressure of up to 3 bar and/or a negative pressure of up to 1.5 bar. Remember: more layers mean more protection (always apply layers at most 1 mm thick), meaning that for more pressure, you should increase the number of layers.

◆ **LAYING CERAMIC TILE ON HIDROFIX:** Some 24 to 36 hours (at +20°C) after applying the **HIDROFIX**, you may then go on to lay the ceramic tile using a cementitious adhesive that meets the regulations for adhering waterproof sheets, such as **FIXSET FLEX** or **TECNOCOL FLEX** or White **TECNOJUNTA FLEX** for glass mosaic tile.

◆ **ATTENTION: HIDROFIX** should not be used:

- At temperatures lower than +5°C.
- In layers thicker than 1 mm each.
- On surfaces that have not first been saturated with water (especially on hot days).
- Modifying the formula or altering the powder-water ratio.
- On unstable concrete structures or structures subject to shifting ground (consult with the Tech. Dept.)
- Without first **waterproof testing** and guaranteeing the structural stability of the concrete shell.

CONSUMPTION:

1.25 kg/m^2 per 1 mm layer (apply at least 2 layers)

TECHNICAL SPECIFICATIONS

DIRECTIVES	EN-14.891
PRODUCT	
• Type:	CM O1P Impermeable membrane made with hydraulic cements modified with polymers. Resistant to freezing/thawing cycles and contact with chlorinated water. Membrane suitable for contact with drinking water.
• Density:	1.2 g/cm^3
• Toxicity:	Extended contact with the powder could irritate the skin and/or eyes.
• Drinking water contact:	according to RD 140/2003
APPLICATION	
• Mix ratio:	25 kg of powder / 6 litres of water
• Density of mixture:	1.7 g/cm^3
• Application temperature:	+5°C to +35°C
• Pot life:	1 hour
• Wait time between layers:	4 to 5 hours
• Wait time before laying **tiles**:	24 to 36 hours at +20 °C
FINAL PERFORMANCE:	
• Resistance to saline waters:	excellent
• Resistance to weak acids/alkalis:	notable
• Resistance to carbonation:	excellent
• Initial adherence after 28 days:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in water:	$\geq$ 0.5 N/mm^2
• Adherence after heat aging:	$\geq$ 0.5 N/mm^2
• Impermeability:	no penetration (1,5bar constant pressure/7days)
• Resistance to cracking:	$\geq$ 0.75 mm (-5 °C)
• Adherence after freezing/thawing cycles:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in chlorinated water:	$\geq$ 0.5 N/mm^2
STORAGE	
• In covered, ventilated areas for:	12 months
PRESENTATION	
• Supplied in:	25 kg bags in Grey and White

The 1st coat of **HIDROFIX**.

The 2nd coat of **HIDROFIX**.