

Hidromar Flex

The HIDROMAR FLEX is a flexible cement-based mono component mortar that protects and waterproofs all types of masonry, concrete or mortar surfaces in the presence of water or humidity. Its flexibility allows it to cover the micro fissures that are formed in the concrete subjected to deformations.

Its characteristics are unique:

- Great flexibility.
- Great adhesion to the substrate.
- Total waterproofing.
- Ceramic finishing possible
- No reduction.
- Excellent malleability in the brush, fine trowel or roller.
- Resistance to the effects of saline and somewhat acidic waters, to air pollution by CO₂, SO₂, etc.

Composition

Flexible cement-based mortar mono component.

Application field

- Swimming pool waterproofing, ponds, tanks, subsoils, etc. Impermeable protection of surfaces with micro fissures.
- Prefabricated blocks or concrete blocks.
- Protection of the outer walls of the buildings.
- Support walls with geotextile sheet protection.
- Tunnels, irrigation ditches and canals.
- Elevator cases. Impermeable even under hydrostatic pressures (for example, a low water table).
- Waterproofing of bathrooms, showers, balconies, etc. for a rear placement of railing with ADIMAR FLEX.

Usage mode

- The supports must be resistant, solid, free of dust, paint, wax, dismembering agents, oils and fats and be perfectly polymerized.
- Before applying HIDROMAR FLEX, we recommend applying a fiberglass trillium in all corners, angles and drains in order to obtain a total waterproofing of the surface.
- Move the surface with water until it stops, eliminating excess water and avoiding the formation of flakes.
- To prepare the mortar, mix the 20 kg bag with 6 liters of clean water. It is mandatory to mix mechanically low speed to avoid the inclusion of air. The mixture obtained must be completely homogeneous.
- Applies a first layer of HIDROMAR FLEX to the brush or fine trowel or pneumatic spraying system. This mantle should not be more than 2 mm thick. We recommend that a light fiberglass network of 5x5 mm be applied to this first layer, while it is still fresh. This mesh considerably improves the resistance to the traction of waterproofing.
- Let the first layer dry for approximately 4 hours.
- Apply a second layer of HIDROMAR FLEX perpendicular to the first layer.

Recommendations for use

- **Utilize at swimming pools or deposits:** Apply at least 2 cloaks of 1 mm each one, for such to resist permanently at positive pressures of 3 maximum bars. To resist at more pressure, augment the number of cloaks (applies always cloaks of a maximum thickness of 1 mm). Therefore for more pressure, increase the number of layers.
- **For the placing of rays of ceramic on HIDROMAR FLEX:** After 24 at 36 hours (at 20°C) from the app of the HIDROMAR FLEX, the pieces of ceramic have to be disposed with a cement conformal glue at the rules of adherence, sealing, how the ADIMAR FLEX.
- **It does not have to utilize HIDROMAR FLEX:**
 - Under back pressure
 - It has inferior temperatures at +5 °C.
 - In thicknesses greater than 1 mm. per layer.
 - On surfaces very dry and avid of water (especially for hot time).
 - Modifying the formula or modifying the account dust/water.
 - On structures of concrete no stable or attach at an eventual floor enclosure (consult the technical kick).
 - Without having realized previously the proof of state and have assured the structural stability of the pool.

- **Watertightness guarantee :**

The waterproofing of a swimming pool, reservoir, etc. is the EXCLUSIVE RESPONSIBILITY of the concrete tank that forms it, since its stability, sizing, quality of the concrete, settlement of the soil, formation of cracks, and even the installation of the waterproofing itself, are not the installation of this waterproofing, are not the responsibility of HIDROMAR FLEX.

HIDROMAR FLEX waterproofs stable structures and is highly resistant to the formation of small cracks in the structure. If concrete forms crack, these cracks will ALSO break HIDROMAR FLEX. This is why we recommend ALWAYS carrying out a waterproofing test to ensure the structural stability of the concrete tank before applying HIDROMAR FLEX.

Technical data

Product	Type	CM O2P norm EN 14891:2017
Application	Mixing ratio	50 Kg dust / 6 l water
	Mix density	1,5 gr/cm ³
	Application temperature	+ 5°C a + 35°C
	Practical time of use	1 hour
	Waiting time between coats	4 or 5 hour
	Waiting time for tiling	between 24 and 36 hours at +20°C
	Consumption	1,25 kg/m ² per 1 mm per layer (appliquer un minimum de 2 couches)

Final yields	Resistance to salt water :	excellent	
	Low cycle/alkali resistance	notable	
	Resistance to carbonation	excellent	
	Initial tensile adhesion	EN 14891:2017-Apdo. A.6.2	≥ 0.5 N/mm2
	Durability of initial tensile adhesion against the action of water/moisture.	EN 14891:2017-Apdo. A.6.3 / A.6.4	≥ 0.5 N/mm2
	Durability of initial tensile adhesion against weathering / thermal ageing	EN 14891:2017-Apdo. A.6.5	≥ 0.5 N/mm2
	Durability of initial tensile adhesion against frost and freeze/thaw cycles	EN 14891:2017-Apdo. A.6.6	≥ 0.5 N/mm2
	Durability of initial tensile adhesion against contact with limewater	EN 14891:2017-Apdo. A.6.9	≥ 0.5 N/mm2
	Resistance to crack propagation under standard conditions	EN 14891:2017-Apdo. A.8.2	≥ 0.75 mm
	Waterproofing, watertightness	EN 14891:2017-Apdo. A.7	Pas de penetration
	Emission of hazardous substances	EN 14891:2017-Apdo. 4.2	Conforme à
	Resistance to crack propagation: at low temperatures (-5°C)	EN 14891:2017-Apdo. A.8.3	≥ 0.75 mm
	Resistance to crack propagation: at very low temperatures (-20°C)	EN 14891:2017-Apdo. A.8.3	≥ 0.75 mm
	Durability of initial tensile adhesion against the action of chlorinated water	EN 14891:2017-Apdo. A.6.7 / A.6.8	≥ 0.5 N/mm2
Interaction of the product with water consumption	UNE-EN 14944-3:2008: Influence of materials cement-based on water intended for the human consumption. Test methods. Part 3: Migration of substances from cement.	The product complies with Royal Decree 3/2023, of 10 January, which establishes the technical-sanitary criteria for the quality of drinking water, its control and supply.	
Stockage	12 months	Stocker dans un endroit couvert, sec et ventilé avec le récipient fermé.	
Presentation	25 kgs bags		

MADE IN SPAIN

For precautions on use, storage and disposal of the product, see the safety data sheet available on the website www.aymarsa.es

NOTE: The information contained in this technical data sheet is based on our experience and on tests carried out in specialist laboratories. The characteristics of the resulting product will depend on the preparation and correct application on site by the user. If these conditions are not met, the above characteristics will not be achieved.



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