

# TECNOSEAL V1

Cement Based Formula for the Waterproofing of Masonry and Concrete



TECNOSEAL V1 is a cement based powder, modified with special additives and ready-to-use. Mixed with water, it cures forming a coating, with limited thickness, which resists the penetration of water.

## Uses

- As waterproof coating for constructions in reinforced concrete such as facades, reservoirs, swimming pools, and water purification stations.
- Waterproofing in situations of high negative hydrostatic pressures.
- Waterproofing of foundations, elevator shafts, retaining walls, or basements.

## Benefits

- Easy and fast in application, by trowel or brush.
- Good Adhesion to the substrate and enhanced durability.
- Extremely effective in waterproofing, even with high positive or negative pressure.
- Water vapour permeable.

## Instruction for Use

Prepare the substrate so that proper adhesion shall be ensured. Remove the deteriorated or contaminated parts, remove eventual rust on the reinforcement, preferably by sandblasting.

Wash the scarified part with high pressure water blasting, reinstating the damaged areas with BS 5F fibre reinforced cement mortar.

In situations where water infiltrates with pressure, the cracks or joints shall be sealed with MAXRAPID PLUG.

Wet the substrate in order to obtain full saturation of the porosity. The excess water, in cavities or on the surface, must be removed before the application of TECNOSEAL V1.

The average water demand for a fluid consistency is 24 to 26 litre for 100 kg TECNOSEAL V1.

In the case of applications at high temperature, or special high adhesion is required (very smooth substrates etc), we advise to mix the powder with a liquid composed out of 3 ltr water and 1 kg polymer in emulsion SPR 60. The modification of TECNOSEAL V1 with TM Bond SBR allows to obtain a secure adhesion to the substrate, even in difficult situation. The use of TM Bond SBR eliminates the necessity of wetting or saturating the substrate.

Apply a first layer of TECNOSEAL V1 using a stiff wire brush, or by trowel, taking care to fill the substrates porosity and eventual cracks. When the product is applied by trowel, it is advisable to add dry silica sand 1 part on 3 parts of TECNOSEAL V1. The second layer finish, can be applied with the same tools used for the application of first layer. after 24 hours from application of the first layer. When the second layer will be applied after a longer curing period, mix the product with a part of TM Bond SBR.

After application, and before set, keep the surface of TECNOSEAL V1 humidified, or protect against the rapid drying out of the water. This is especially required in hot, dry and windy conditions. Mixed with TM Bond SBR the product will be less sensitive to drying out, and in many conditions, the post treatment is not required.

## Technical Properties

(Typical values)

<b>Elasticity Modulus at 28 days</b>	14000-16000 N/mm <sup>2</sup>	
<b>Adhesion to the Substrate (Direct Tensile Strength)</b>	<b>1 Day</b>	<b>28 Days</b>
	0.6 N/mm <sup>2</sup>	1.3 N/mm <sup>2</sup>
<b>Compressive Strength</b>	<b>1 Day</b>	<b>28 Days</b>
	12 N/mm <sup>2</sup>	36 N/mm <sup>2</sup>
<b>Flexural Strength</b>	<b>1 Day</b>	<b>28 Days</b>
	3.6 N/mm <sup>2</sup>	8.2 N/mm <sup>2</sup>
<b>Pot Life after Mixing</b>	Up to 60 mins @ 30°C	

## Health and Safety Instructions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. If accidentally ingested, seek immediate medical advice. Keep away from children and animals. MSDS Safety data sheet available.

## Storage

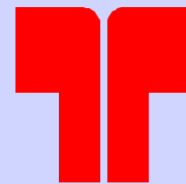
The product can be kept for at least 12 months if stored in dry and protected conditions, in the original unopened packaging between +5°C and +35°C.

## Packing

Bags of 30 Kg.  
Coverage: 3-4 kg/m<sup>2</sup>

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## Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
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