



Systems for
Waterproofing,
dehumidification,
wetproofing



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

TECNOSEAL V1

CEMENT BASED FORMULA FOR THE WATERPROOFING OF MASONRY AND CONCRETE

**CE approved – Certificate n. 1305 - CPD - 0808
EN 1504-2 table ZA.1d**

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

Advantages /characteristics

- Easy and fast in application, by trowel, brush.
- Optimal adhesion to the substrate and optimal durability.
- Extremely effective in waterproofing, even with high positive or negative pressures.
- Water vapour permeable.

Fields of application

- As waterproof coating for constructions in reinforced concrete as facades, reservoirs, swimming pools, and water purification stations.
- Waterproofing also in situations of high hydrostatical pressures, positive or negative.
- For the waterproofing of foundations, elevator shafts, retaining walls, or basements in steel reinforced concrete.

Method of use

- Prepare the substrate so that the adhesion shall be optimal. Remove the deteriorated or contaminated parts; remove eventual rust on the reinforcement, preferably by sandblasting.
Wash the scarified part with high pressure water blasting.
Prepare structure when damaged with BS 38 MuCis® fiber-reinforced bi-component.
In situations where water infiltrates with pressure, the cracks or joints shall be sealed with TECNOSTOP.
- 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÷26 lt for 100 kg TECNOSEAL V1.
- In the case of applications at high temperature, or when special high adhesion is required (very smooth substrates,..etc), we advise to mix the powder with a liquid composed out of 3 lt water and 1 kg polymer in emulsion SPR 60. The modification of TECNOSEAL V1 with SPR 60 (24 % ref. to the powder of the same mix 3:1 water/SPR 60) allows to obtain a secure adhesion to the substrate, even in difficult situations. The use of SPR 60 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 SPR-60.
- After application, and not yet reached 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 SPR 60 the product will be less sensitive to drying out, and in many conditions, the post-treatment is not required.
- For internal applications, and to avoid condensation, the application of 1 cm of MACROPOR (see technical data sheet) on TECNOSEAL V1 is advised, prior to the application of a finishing product.

Emission date : 01/2006
Revision date : 09/2012

Nr. rev.: 5

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TECNOCHEM ITALIANA S.p.A.
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,
TEL. **39 035 55.48.11 – TELEFAX **39 035 55.48.16
E-mail: info@tecnoche.it- www.tecnochem.it



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Storage Information according to 2003/53/CE:

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.

Packaging Bags of 25 Kg.

Technical characteristics (typical values)

• Elasticity modulus	28 days	14000-16000 N/mm ²
• Adhesion to the substrate (direct tensile strength)	1 day	0,6 N/mm ²
	28 days	≥ 1,3 N/mm ²
• Compressive strength	1 day	12 N/mm ²
	28 days	32 N/mm ²
• Flexural strength	1 day	3,6 N/mm ²
	28 days	8,2 N/mm ²
• Resistance to positive water pressure UNI EN 12390/8 (mixture containing SPR60)		5 bar (equal to 50 m water column pressure)
• Resistance to negative water pressure UNI 8298/8 (mixture containing SPR60)		2,5 bar (equal to 25 m water column pressure)
• Consumption	3-4 Kg/m ²	

Safety indications Read carefully the safety indications on the packaging, or consult the relevant Material Safety Datasheet of this product

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.

Emission date : 01/2006
Revision date : 09/2012

Nr. rev.: 5

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