



PENTAPROOF LB2

Anti-efflorescences and anti-damp agent in monocomponent aqueous solution

Technical Data Sheet, June 2015

DESCRIPTION

Pentaproof LB2 consists of a mixture of pre-dispersed silica and silicone derivatives, specifically modified and stabilized to block the efflorescences and prevent the capillary rise of water. It is particularly suitable for the preparation of the surfaces to plaster with dehumidifying plaster and for consolidating half-porous substrates.

FEATURES

Thanks to its special composition, **Pentaproof LB2** allows making all the traditional porous building materials hydrophobic.

The product, diluted with water, has a very low degree of viscosity that allows it to penetrate deeply into the support and to block the possible efflorescences inside the masonry, thus acting as an excellent barrier to its outward migration.

Moreover, since it is soluble in water, it can be applied in stuffy environments and where products containing solvents could not be used.

The waterproofing and consolidating action of **Pentaproof LB2** is produced by the deposition of the silica micro-particles inside the porosities and capillaries of the support, as well as by the combined reaction between the components of the product, the existing salts and the carbon dioxide in the air.

The double action of **Pentaproof LB2** produces a partial clogging of the porosities and the capillaries, sufficient to block the rising of the salts but not the rising of the water in the form of vapour.

The treatment with **Pentaproof LB2** allows all kinds of subsequent application, without any problem of adhesion either in the wet or in the dry state.

This characteristic allows the preparation of the support for dehumidifying plasters while lengthening and improving their life in a remarkable way.

USE

The results obtained by using **Pentaproof LB2** will be excellent if all the directions for use here below are carefully complied with.

Clean the surfaces to treat thoroughly.

Dilute **Pentaproof LB2** with water whose hardness is below 25° F (if precise data are not available, use distilled water or low-mineral water) in a ratio of 1:1.

Use the solution obtained within 24 hours from the preparation (if the solution looks muddy or milky, it is no more usable).

Lay the product only on slightly wet or dry surfaces and, if possible, away from the sunlight, with a roller, a broom or a flat brush, depending on the surface to treat.

Always close the can of **Pentaproof LB2** and the one of the diluted solution carefully, in order to prevent the product from reacting with the carbon oxide in the air and losing its effectiveness.

Do not expose the surfaces treated with **Pentaproof LB2** to water and bad weather for 24 hours at least, after the application. It is possible to apply a dehumidifying plaster when the surface treated with **Pentaproof LB2** is dry.

	Data	Method
TECHNICAL DATA	State:	Liquid
	Colour:	Colourless
	Density:	$1.090 \pm 0.010 \text{ kg/m}^3$
	Potential of hydrogen (pH)	12.5 ± 1.00
	Water solubility:	Totally soluble

YIELD The yield depends on the porosity of the support. However, the consumption never exceeds 0.200 litre of solution per m².

STORAGE AND VALIDITY **Pentaproof LB2** has a 12-months validity starting from the date of the delivery, only if it is stored in the original cans kept perfectly closed, in a sheltered place at a temperature between +5°C and +40°C

PRECAUTIONS The product, as it is, is highly alkaline. Therefore, it is necessary to use rubber gloves, protective goggles and protective clothing when handling it.
In case of contact with eyes, wash them with water immediately and plentifully, for not less than 15 minutes. If the irritation does not stop, turn to a doctor for medical treatment.
In case of contact with skin, wash it with water immediately and plentifully.
In case of ingestion or inhalation, see a doctor.
Do not disperse the product and the cans in the environment

PACKAGING 10 and 25 kgs cans

The specifications stated in this report have been got either through standardized tests and rules or their modifications following Pentachem systems. The methods applied can be requested to our technical service.

All the data stated in this technical sheet are based on our knowledge and experience. However, before using the item differently from indicated, it is advisable to carry out preventive tests. In any case, PENTACHEM does not assume any responsibility for any damage or defect caused by the use of our products, as the employment conditions are not under our control. We also inform that our technical service is at our customers' disposal for any information concerning the correct employment of our products.

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