



## TECHNICAL DATASHEET

# END LIQUID



### PENETRATING HARDENER

**END liquid** is a colourless spray-on liquid which is capable of deep hardening any porous material. It is also a product that is particularly well-suited to barrier coating asbestos, amosites, crocidolites, etc. contained in some construction materials or contaminated surfaces.

**END liquid** is supplied ready-for-use. Shake the container and spray onto the substrate, **END liquid** will penetrate according to the density, thickness and composition of the substrate to be treated.

### APPLICATION METHOD

Dampen the substrate to reduce surface tension and spray undiluted **END liquid** using an airless spray gun at a low pressure of 3 to 10 bar. Adding water will alter the product specification and change its effectiveness.

### APPLICATION ON MORTAR TO PROTECT AGAINST FIRE

It is the most effective product for hardening mineral fibre mortars. Apply one or more coats of **END liquid** directly onto the mortar until it is fully soaked without excessive run-off, **END liquid** will penetrate and harden the mortar to a depth of 7.5 centimetres. Spray from left to right and from top to bottom until soaked. If maximum-depth penetration and hardening are required, apply another coat. (While the surface is damp). For cement-type mortars or plaster with vermiculite, perlite or mica, etc. apply **END liquid** until the material is soaked completely. Due to the density of this type of material, **END liquid** may not penetrate any further than 7 to 20 mm with each application, but in all cases it will penetrate and harden more rapidly than any other product on the market.

### THERMAL INSULATION, DUCTING, ETC.

**END liquid** is an excellent product for barrier coating and hardening fibrous products typically used for thermal insulation, penetrating and hardening according to the type of insulation and preventing the dispersion of fibres, making it far more effective than adhesive-based barrier coatings. In order to delimit the treated surfaces, the product may be coloured with common paint colourant or any printing ink.

### PAINTED SURFACES

Paint inhibits the penetration of **END liquid**. For efficient penetration and hardening, it must be injected underneath the paint by creating holes in it.

### SURFACE PREPARATION

All surfaces must be free of grease and paint to enable **END liquid** to be absorbed fully. Surfaces that do not require treatment, such as glass, windows, etc., must be protected against indirect spray. They should be protected with a spray or a polyethylene sheet; the protective spray must be based on a water-repelling agent, such as a petroleum-based gel, silicone, etc.

### CLEANING

If possible, use water to clean tools, equipment and stained surfaces before drying. **END liquid** has been designed to be a permanent barrier coating for all porous materials. Prepare and apply carefully in order to avoid excessive cleaning.



## ESTIMATION OF COVERAGE

Coverage will depend to a large extent on the surface area to be treated, with a reference value being the approximate coverage over **PERLIWOOL**<sup>®</sup> of 0.5 kg/m<sup>2</sup> for each Airless application.

## PACKAGING

**END liquid** is supplied in 25 Kg containers, read for use.

## TECHNICAL SPECIFICATIONS

Appearance	Colourless or greyish liquid
Odour	Odourless or very slight odour
Odour threshold	Not determined

Properties:	
pH	10.5 aqueous solution of 1% at 20°
Melting & freezing point	>300°
Initial boiling point and boiling interval	>100° (100.8°C)
Flash point	Not applicable. Inorganic substance
Rate of evaporation	Not applicable
Flammability	Non-flammable
Upper/lower flammability or explosive limit	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.335g/cm <sup>3</sup> , 38.0Be
Solubility	The substance is water-soluble. The aqueous solution is alkaline.
n-octanol/water partition coefficient	In accordance with Section I of REACH Annex XI, the dissociation constant (required in Section 7.16) does not require measurement because the substance is inorganic. The soluble silicates are insoluble in alcohol, which indicates that this would also be applicable to n-octanol
Autoignition temperature	The silicates do not combust spontaneously when in contact with the air.
Decomposition temperature	Not determined
Viscosity	140+/- 20 q.s. at 20°C
Explosive properties	Non-explosive. There are no chemical groups with explosive properties in the molecule.
Combustive properties	No oxidizing properties. It does not comprise chemical groups capable of exothermic reaction with combustible materials.

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