

PENTENS R-290

Product Data Sheet

High-Quality General-Purpose Water Repellent

Description

PENTENS R-290 is a silicone concentrate that is based on silane/siloxane and is diluteable with organic solvents.

Diluted PENTENS R-290 is a high quality general purpose water repelling substance used for impregnation and priming of mineral and highly alkaline substrates.

Uses

PENTENS R-290 is suitable for imparting water repellency to absorbent, porous and mineral building materials, e.g:

- All kinds of concrete
- Mineral plasters
- Cement fiberboards
- Sand-lime brickworks
- Brickworks
- Aerated concrete
- Mineral-based natural and artificial stone
- Mineral paints
- Suitable to be used as primer for exterior paints
- Not suitable to be used as rendering gypsum water repellent

Advantages

- Good penetration capacity.
- High alkaline resistance.
- Tack free drying.
- Effective even on damp substrates.
- Water repellency develops fast.

After application, PENTENS R-290 reacts with the atmospheric moisture or pore water in the substrate, thereby generating the active ingredient and liberating alcohol. The active ingredient greatly lowers the water absorbency of the substrate. Since neither pores nor capillaries are clogged, the substrate retains a very high degree of water vapor permeability.

Technical & Physical Data

Appearance	Colorless, hazy
Silane/ Siloxane content (%)	approx.100
Density at 25°C (g/cm ³)	approx.1.05
Viscosity at 25°C (mm ² /s)	approx.20
Estimated Coverage	0.1-0.15 litre/m ² /coat
Packaging	20 litre /pail

* These figures are intended as a guide and should not be used in preparing specifications.

Storage

PENTENS R-290 has a shelf life of at least 12 months if stored in tightly closed original containers between 5°C and 30°C. The containers must be protected against direct sunlight.

If the material is kept beyond the recommended shelf life, it is not necessarily unusable but a quality check should be performed on the properties relevant to the application.

Instruction for Use

Flooding, preferably not under pressure, is the best technique for applying ready-to-use PENTENS R-290. Apply several coats, wet on wet, until the substrate is saturated. Generally two applications suffice for all substrates.

Do not leave long breaks between coats. Apply the next coat when the substrate has absorbed the previous one and is no longer shiny (wet-on-wet working). The substrate must not have damp spots and it should look dry. The requisite quantity of PENTENS R-290 will depend on the absorbency of the substrate.

The amount of impregnating agent required for a substrate and the effectiveness of the impregnation should be determined on site by testing a small area of the surface. Before applying PENTENS R-290, be sure to cover windows and other non-absorbent surfaces properly because the product cures quickly and it will be extremely difficult or even impossible to be removed after a few hours.

Wipe off any splashes on window panes immediately and use a solvent if necessary.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. If contact with eyes occurs, rinse immediately with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

PENTENS**UFON NANO-CHEMICAL LTD.**

8F, No.2, Lane 348, Sec 2, Chung-Shang Road,
Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
Tel: +886 2 2240 0220 Fax: +886 2 2242 6536
URL: www.pentens.com
E-mail: pentens@ms35.hinet.net

DONG JI (M) SDN. BHD.

No.4, Jalan BP 4/1, Bandar Bukit Puchong,
47120 Puchong, Selangor, Malaysia.
Tel: +603 8066 8287 Fax: +603 8066 9287
URL: www.pentens.com.my
E-mail: dji@pentens.com.my