

# HITCHINS

## TECHNICAL DATASPEC

# LoSeal-in

**Colourless Breathable Water Repellent  
for Mineral Substrates**

**March 2014**

**NO.1403 v2**

### Description

Hitchins **LoSeal-in** is a new generation silane/siloxane based; colourless, breathable water repellent for porous mineral and highly alkaline substrates.

### Features

- **LoSeal-in** penetration deep into the pores of the substrate reacts with the atmospheric moisture or water in the pores, generating the active ingredient and greatly lowers the water absorbency of the substrate.
- **LoSeal-in** has good vapour permeability as it does not form a film on the substrate surface or clog up pores and capillaries.
- **LoSeal-in** has high alkaline resistance.
- **LoSeal-in** is effective even on damp substrates.
- **LoSeal-in** fast development of water repellency.
- **LoSeal-in** is UV stable as the treatment is deep in substrate.
- **LoSeal-in** reduces mould formation and atmospheric pollution.
- **LoSeal-in** reduces salt efflorescence.

### Recommended Uses

Where a mineral substrate needs to be preserved from water penetration or other environmental attacks yet retaining the natural breathability and aesthetic of the mineral substrates, then **LoSeal-in** should be used on:

- All kinds of concrete; smooth, rough and aerated
- Mineral stuccos, renders and plasters (not plaster of Paris)
- Exposed masonry and aggregate ( pebble, chip, quartz)
- Mineral based natural stone and artificial stone e.g. Lime Stone, Oamaru stone
- Sand-lime brick work, baked bricks, etc
- Cement fibre-reinforced board
- Some adobe, earth bricks (check with manufacturer)
- Surface painted with Mineral or lime paint

### Limitations

- Cementitious surface must be un-painted or treated and clean
- **LoSeal-in** applied by spraying low pressure or foam roller in 2 flood coats on same day.
- Long breaks between coats results in second coat repelled.
- Glass and aluminium surfaces must be protected from **LoSeal-in**
- Rubber and bitumen membranes must be covered for protection.

### Technical Data

Classification	Silane, Siloxane Copolymer		
Colour	Clear & colourless	Specific Gravity	0.77 kg/litre
Smell	Solvent	Non-Volatile Content	8.3%
Boiling Point	158-198°C	Flash Point	36°C
Shelf Life	4 years	Dry time	1 – 2 hour
Application Temperature Range	8°C – 35°C	Packaging	4 & 20 Litre Cans
Product Density	0.73	V.O.C	735 grams/litre
Application Method	Brush, Roller, Spray (low pressure or knap sack)		

## Hitchins New Zealand Limited

7 Masfield Street, PO Box 40749, Upper Hutt, Wellington, New Zealand, Ph: 64 4 527 7248  
 300 Richmond Road, PO Box 46018, Herne Bay, Auckland, New Zealand, Ph: 64 9 360 3246  
 Freefax: 0800 448 622, Web: [www.hitchins.co.nz](http://www.hitchins.co.nz), Email: [office@hitchins.co.nz](mailto:office@hitchins.co.nz)



## LoSeal-in Colourless Breathable Water Repellent for Mineral Substrates

March 2014

NO. 1403 V2

### Coverage - Consumption

Consumption of LoSeal-in material depends of the profile , type and absorbency of substrate and the following is a guide only:

Type of Substrate	Theoretical Coverage
Concrete	2 - 4 m2 per litre
Stucco plaster	1 - 2 m2 per litre
Sand-lime bricks	1.5 – 2.5 m2 per litre
Brickwork	0.5 – 2.5 m2 per litre
Aerated concrete	0.5 – 2.5 m2 per litre
Cement fibre board	3 – 10 m2 per litre
Natural stone	0.3 – 20 m2 per litre

You are advised to carry out a test on the substrate to establish consumption rate (m2 per litre) of **LoSeal-in** before submitting quotation.

### Application

- The substrate should be free from paint film or any previous treatment.
- For infested existing substrate apply Hitchins Mosskill solution; leave 3 days and water-blast clean.
- New substrate cured and free of curing, bond breakers or form release agents, efflorescence, dirt, dust, grease etc.
- Slight dampness in substrate is tolerable but no wet spots.
- Aggregate finish without blemishes, brick & stone work with good pointing.
- Non-treated surfaces masked out with plastic or protected from **LoSeal-in**.
- **LoSeal-in** is best applied by low pressure spray or with 10mm thick foam roller sleeve in minimum of two flood coats on same day.
- Apply 2-3 coats, wet on wet, until the substrate is saturated.
- Do not leave long breaks between coats as subsequent coats could be repelled.
- Ensure surfaces that need protection from LoSeal-in are covered and sealed.

### Treatment

- Surfaces treated with two coats of **LoSeal-in** on same day will repel rainwater and provide waterproofing protection for years.
- Surfaces treated with **LoSeal-in** process is best resurfaced after 7-9 years for extended water-proofing performance

### Cleaning

Hitchins No 1 or 2 thinners

### Storage & Handling

- **LoSeal-in** must be stored in tightly sealed, original containers at temperatures not exceeding 30°C.
- **LoSeal-in** stored and protected from direct sources of heat (sunlight).
- If stored properly, the product has a shelf life of 12 months.

### Non Compliance Warning

Do not apply or install any Hitchins product or process to building structures that do not comply with the Building Code.

### Warranty

**LoSeal-in**, as part of a process, is covered under the Hitchins Product Performance Warranty Document for "**that**" products process, as per our Warranty Schedule.

### Health and Safety

- Avoid direct contact with skin and eyes. Gloves and goggles should be worn.
- Wear protective clothing and barrier cream on skin.
- Work in well ventilated areas or wear mask.
- Clean hands with hand-cleaner and soapy warm water
- Do not use near open flame or sparks.
- For further information, refer to the Safety Data Sheet 1403.