



ADDED SECURITY FOR YOUR BUILDING

Si-Prime by **Klaas Coatings** is a low viscosity, water carried blend of Silanes and Siloxanes used for priming porous mineral substrates prior to painting with **Si-Rex03**.

Key Innovations

- Water Repellent – Non pore blocking
- Deep penetration
- High Vapour Permeability
- Prevents salt, water and alkalis attack
- Improvement of coating adhesion
- Alkali Resistant
- Reduces paint consumption



Water Repellency & Deep Penetration

Si-Prime impregnates the surface making the penetrated zone hydrophobic (water repellent) which creates a dry zone beneath the coating. This is an additional layer of waterproofing protection for the substrate along with the coating that is applied subsequently

High Vapour Permeability

While the surface layer is water repellent it does not block the pores of the substrate. It allows moisture in the form of vapour to escape. This ability to breathe matches the breathability of **Si-Rex03** which ensures the whole system can breathe. This also allows the renders and other cement based substrates to cure fully and gain strength over time.

Prevents Salt, Water and Alkalis Attack

The dry zone created by the deep penetration of **Si-Prime** protects the coating from attack by water, salts and alkalis that can be transported to the surface.

Improves Coating Adhesion

The dry zone created below the coating improves adhesion and it's breathability ensure that cracking and peeling cannot occur.

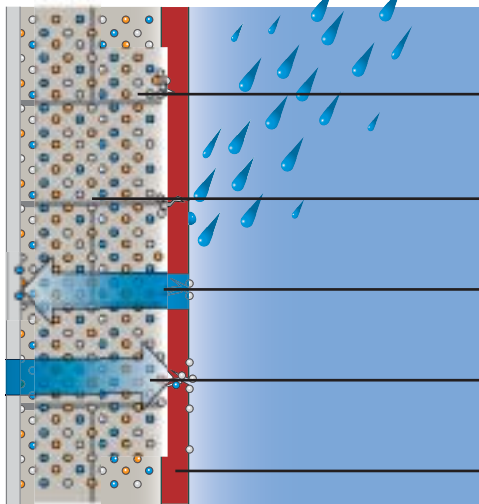
Alkali Resistant

The Silanes/Siloxanes that are the active ingredients of the **Si-Prime** have high alkali resistance and are therefore suitable with cement and lime based substrates

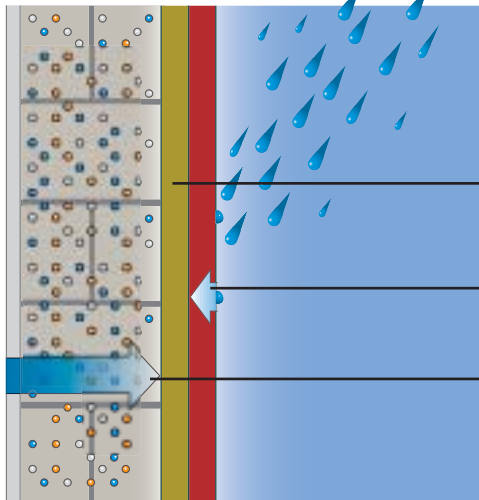
Reduces Paint Consumption

Si-Prime will significantly reduce paint consumption per Square metre and improved working time on porous substrates. This is especially helpful on hot or windy days where it is difficult to keep a wet edge.

Substrate without primer



Substrate with Si Prime





Substrate

Water, Alkalis & Salts

Moisture passes into Substrate

Alkalis and salts attack paint

Paint

Si-Prime

Protects substrate from moisture

Protects paint from Alkali and salt attack

Product Usage Chart

Si-Prime

In-situ Concrete	Optional
Precast Concrete	Optional
Cement Render/Plaster	yes
Skim Coat	yes
Brickwork	yes
Blockwork	yes
Fibre Cement Sheet	Optional
Stone	yes
Wood	no
Metals	no
Glass	no
Plastic	no
Previous Painted	no

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