Terrix® EP-PS-RN

polymer-silicate coating

for cracked substrates and renovations

TERRIX®
external coating

V.2.0.F 2020/12

pcc Terrix

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polymer-silicate coating

Terrix®renovation coating is based on innovative Swiss, patented technology converting potassium water glass into a polymer. Polymer-silicate coating offers all advantages of well know silicate coatings without limitations related to the application process (silicate coatings are very often used for renovation of historical/listed buildings due to its longevity). **Due to its mineral characteristic and lack of surface electrostatics, the product is the most dirt resistant type of the render on the market and will never delaminate as it is adhered to a substrate by a chemical reaction.**
Due to the content of special micro-fibres it efficiently bridges scratches and cracks of the substrate with a width up to 0.3 mm.
Another important property of the render is its built-in high resistance to microbial contamination (eg. algae) as well as efflorescence. Terrix® EP-PS-RN is recommended for use in coastal areas where exposure for elements is high. The coating is flame retardant.
Terrix® EP-PS-RN is being used for restoration the most beautiful historical and listed building in Europe

The benefits of Terrix® RD-PS-S polymer-silicate render

1. **No flaking or cracking** as Terrix® RD-PS-S coatings bond to the substrate by chemical reaction,. Acrylic and silicone coatings just create a film on top of a substrate which can lead to peeling or cracking.
2. **High resistance to elements** - the coating is fully suitable for costal application.
3. **Very high resistance to dirt**, not achievable by any organic based coatings on the market (all acrylics and silicone even with self clean effect) it is due to its mineral formulation therefore lack of surface electrostatics. The dust wont't be attracted to the coating.
4. **Flame retardancy** due to the lack of organic components in the coating and pigments used for colouring. In contrast to most coatings on the market Terrix® RD-PS-S provides protection against the spread of flame. Mineral characteristic of the product makes it fully incombustible.
5. **Very high resistance to yellowing** - Built in UV blockers to maintain original look of coating.
6. **Natural algae resistance** - Increased Ph level (high alkalinity) delivers natural and long lasting protection. Other products on the market are protected by addition of biocides which have limited lifespan (5-6 years).
7. **Very low water absorption.** The product is more resistant for winter when water freezes and by expanding causes system failures.
8. **Micro crack bridging** - due to unique formulation and microfibres added to the product, the coating can fill, and bridge cracks up to 0.3mm

Terrix® EP-PS-RN polymer-silicate paint vs high quality masonry paints in the U.K.

property	High quality silicon renders in the U.K. (manual application)	PCC TERRIX® RD-PS-S polymer-silicate premium finishing coat
Coating type	high quality masonry paint	polymer-silicate
Category	premium	premium
Black mould/ algae resistance	limited	very high
Adhesion to substrate	mechanical (film)	chemical bonding
Risk of cracking or flacking	high	none
Dirt resistance	average	very high
Vapour permeability	average	very high
Application on not fully dry substrates	not possible	possible
Resistance to elements	average	very high
Spot repair	difficult	easy
Flame Retardant	none	Category A
Colour resistance	average to good	very good
Water absorption	low	very low

coating type	vapour permeability	unlimited colours	substrate adhesion	anti fungal protection	dirt resistance	wash-off resistance	application on saturated substrates	flame retardancy	water absorption	durability
mineral	*****	**	***	*	*	*****	**	*****	*	***
acrylic	*	*****	**	**	**	*	*	*	***	*
silicate	*****	***	*****	*****	****	***	*****	*****	**	*****
silicone	****	*****	**	***	***	**	*	*	****	**
Terrix® polymer-silicate	*****	***	*****	*****	*****	****	*****	*****	*****	*****

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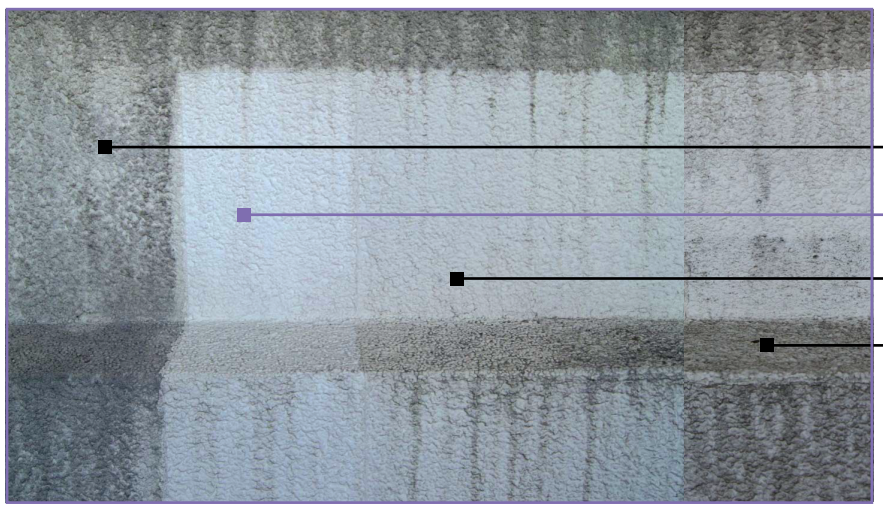
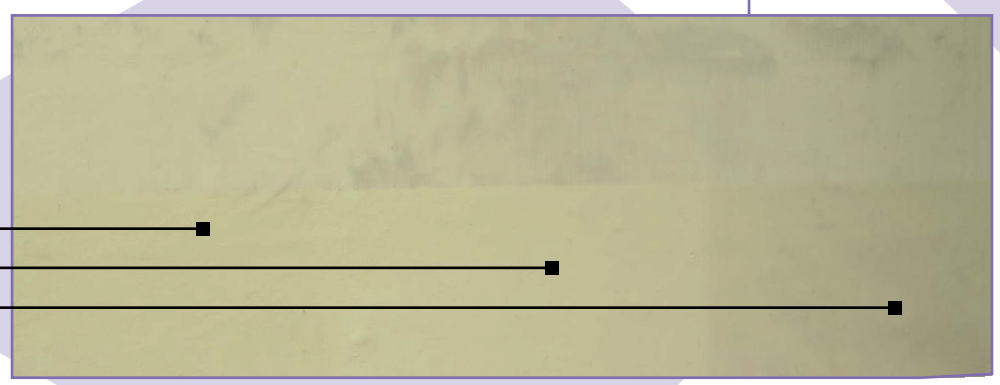
Dirt resistance

after exposure for 20 years in a big city*



6 years in a clean town
(school in Switzerland
no industrial pollution)



Algae resistance

10 years after application (the same location and exposure)

TERRIX® polymer-silicate coating

High Quality Silicone Render

Resistance to elements:

6 years after application (seafront located building)

TERRIX® polymer-silicate coating

Other product in the same location

* or 3 next to a cement factory without filtration systems

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Renovation projects


Church - Kortynica Laskorzewska, Poland


Monastery - Tarnobrzeg, Poland


Czapski Palace - Warsaw, Poland


Episcopal Curia - Wroclaw, Poland


King Jan III's Palace at Wilanów, Poland

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PCC Terrix
terrix@pcc.eu
www.terrix.co.uk

Manufactured by:
PCC MORAVA-CHEM s.r.o
Leoše Janáčka 798/20,
CZ-737 01 Český Těšín,
Czech Republic

Part of: **PCC SE**
Moerser Straße 149,
47198 Duisburg, Germany
Phone: +49 (0)2066 20190
Email: info@pcc.eu

Official UK distributor:

F&T

TERRIX®

BUILDING AND
CONSTRUCTION FINISHES

Call or email for more information:

0333 320 1513

sales@ft-terrix.com

www.ft-terrix.com

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TERRIX® external coating by PCC Terrix