



Terrix® RD-PS-S

polymer-silicate render
for spray application

main properties

- Extended resistance for dirt due to the lack of surface electrostatics;
- Highly extended lifespan vs organic based renders (e.g. acrylics, silicones);
- Bonding to the substrate by chemical reaction - no risk of flaking or delamination;
- High resistance to algae growth;
- Full vapour permeability;
- High resistance to elements;
- Low water absorption;
- Suitable for spray application (up to 5 times faster);
- Low-cost maintenance vs other renders.

product description and areas of application

A modern polymer-silicate thin coat render for spray application.

Terrix® RD-PS-S 1.5 is based on innovative Swiss, patented technology converting potassium water glass into a polymer. Polymer-silicate render has all advantages of well known in heritage/historical building renovation market silicate renders without limitations related to the application process. Due to its mineral characteristic and lack of surface electrostatics, the product is the most resistant type of render on the market. Terrix® RD-PS-S 1.5 will never delaminate as it is adhered to a substrate by a chemical reaction.

Another important property of the render is its built-in high resistance to microbial contamination (e.g. algae) and efflorescence. Terrix® RD-PS-S 1.5 is recommended for use in coastal areas with high exposure to elements.

Terrix® RD-PS-S 1.5 can be used on one of the following systems:

- part of EWI systems based on EPS, PUR or Mineral Wool
- part of anti-crack renovation render system
- part of two coat render system
- part of cavity-free timber frame system

Terrix® RD-PS-S 1.5 is suitable for both new build and retrofit and can be applied to mineral and synthetic substrates (e.g. concrete, cement and limestone renders), a substrate covered with sound synthetic coatings.

technical data

Base binder: specially modified potassium water glass;

Pigments: non-organic coloured pigments with high resistance to elements;

Colours: white and selected colours from the PCC colour chart as well as custom pastel colours;

Texture grained: 1.5 mm;

Diluent: water;

Temperature of application (air and substrate): from +5°C to +25°C;

Maximum application relative air humidity: ≤75%;

Density: approx. 1.50 g/cm³;

Average usage: 2.2 kg/m²;

Vapour permeability: S_d = 0.06 m (CAT. V1);

Water absorption: w = 0.16 kg/m² · h^{0.5} (CAT. W2);

Packaging: single-use plastic packaging of 20 kg;

Storage: store in the tightly sealed, original packaging in a cool area, ensuring protection against frost. Opened packaging should be tightly closed and used as quickly as possible;

Shelf life: 18 months from the date of production (factory-sealed packaging).

CAUTION: Keep the product out of reach of children.

004-1-1/23-3.0-TDS-EN

Since the use and processing of the product is not under our direct influence, we are not liable for damages caused by its misuse. We reserve the right to make changes as a result of technical progress.

PCC MORAVA-CHEM s.r.o, Leoše Janáčka 798/20, CZ-737 01, Český Těšín
 mail: terrix@pcc.eu; tel: +420 558 769 111 www.terrix.co.uk

application

Substrate preparation:

Apply to a sound and clean substrate (without cracks and delaminations), degreased, even, dry, and biological or chemical efflorescence free). The substrate should be free of algae/fungi growth.

In case of microbial contamination, the substrate should be cleaned with a power washer. Subsequently, a biocide solution for removing microbial contamination is to be applied as per the product manual. Any loose layers not bound to the substrate (such as loose plasters or flaked paint coats) should be removed. Wash and degrease old and/ or dirty substrate with water and a cleaning agent.

Note:

The finish coat may not be applied on the newly completed mineral substrate, i.e. cement or lime mortar renders - min.: of 2 weeks curing period is required.

If the product is being used as a part of Terrix® render systems, refer to the system manual for detailed application instructions.

Priming:

The substrate should be primed with Terrix® PR-PS-R before applying the render. The primer should be dry before applying a finish coat (approx. 24h). It is recommended to use a primer that is the same colour as the finish coat.

Preparation:

The packaging contains a ready-to-use product. If stored for a long time and before application, the product should be thoroughly mixed with a low-speed mixer fitted with a basket stirrer until a smooth, homogenous consistency is obtained. Further mixing is not recommended as it may result in excessive product aeration. If required, add a small amount of clean water (max. 0.1 l per 20 kg of the product). The quantity of added water may vary for different substrate types, weather conditions and application methods.

Application method:

Render should be applied onto the substrate using a pneumatic spraying device at a working pressure of 3-4 atmospheres and a nozzle diameter of 5 to 6 mm.

While spraying, the gun should be kept perpendicularly to the substrate at a distance of 0.4-0.6 m.

Drying:

Typical binding (setting) time ca. 24h (20°C, 55% RH).

NOTE:

Drying time may be longer due to low temperatures and high relative humidity. To assist in drying the finish coat, the surface should be protected against precipitation and condensation.

If it is required to apply in adverse weather conditions, ask for the winter version of the product Terrix® RD-PS-S (w), which gives the product accelerated 8h wash-off resistance (min temperature 5°C, 75% RH).

Useful hints:

The final effect may depend on the substrate type. For non-uniform substrates, it is recommended to skim at first the whole surface with base coat mortar. A single batch product should be used on a single application / architectural element to avoid colour differences. 'Wet on wet' method should be used. To be applied on dry days at temperatures between 5-25°C. Avoid applying in direct sunlight or during strong winds. To protect the top coat against inclement weather conditions, scaffolding should be covered with protective netting or tarpaulin.