TERRIX®

BUILDING AND
CONSTRUCTION FINISHES

Terrix® PL-SX-S
spray plaster

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TERRIX®
plasters

PCC
Therm UK

Terrix® PL-SX-S
spray plaster

Terrix® Pl-SX-X is ready-to-use plaster coat for machine levelling of interior walls and ceilings. For final levelling and smoothening of surfaces before painting. Its white colour and smooth surface allow for a reduction in the number of coats necessary to obtain a full decorative effect. When set and hardened, very easy for sanding. Suitable for use on all typical mineral surfaces (such as concrete, cement, limestone, lime and gypsum plasters and plaster boards). Due to its chemical formulation, the product dries even when higher relative humidity levels occur.

The benefits of Terrix® PL-SX-S spray plaster over traditional skim coats.

Benefits to the customer:

1. Higher productivity outputs - up to 500m²/man/day
2. Due to the full vapour permeability of the Terrix® spray plaster there is no need to wait for taping and jointing to be fully dry - the product can be applied on the same day.
3. Chemical bonding - the product is permanently connected to the substrate. There is no risk of cracking or flaking.
4. Chemical accelerated set - the product is less sensitive to weather conditions meaning Terrix® spray plaster is ready for painting usually next day, in extreme situations after 3 days. Traditional skim coats and competitor's spray coats during winter conditions needs up to two weeks to be ready for painting.
5. Very clean application process - spray plaster is premixed and does not required water or mixing on site. Additionally there is almost no overspray which means very little cleaning after application.
6. The quality of the finish is much better then standard skim coat plastering or other systems . It is delivering a very smooth, decorative surface quality not achievable with skim coat plastering.
7. The Terrix® Spray Plaster is fully compatible with Terrix® premium dispersion-silicate paint.
8. The chemical formulation of the product and its application prosperities allow for more consistent finish leading to very little snagging.
9. Health and safety benefits:

- Less operatives on site leading to reduced risk of accidents.
- Reduced risk of falling from heights - ability to spray up to 3m without scaffolding.
- Very clean application process - spray plaster is premixed and does not required water or mixing on site. Additionally there is almost no overspray which means very little cleaning after application.
- Reduced dust risk on site. If Terrix® Self-levelling spray plaster is used, no sanding is required.
- No mist produced during spraying - safe for application without dusk masks.

Benefits to the applicator (subcontractor):

1. Lower labour cost due to the increased output. Up to 500m²/man/day.
2. Ready to use - no mixing or water on site required.
3. Less skilled labour required due to the ease of application. Terrix® spray plaster is extremely easy for spraying, wiping and sanding.
4. Minimising days on site - Due to the products permeability and partly chemical set capabilities the work process can be accelerated, in return releasing the areas ahead of program for others trades.
5. Highly reduced snagging due to consistent finish.
6. Easy sanding - for initial 20 days after application the product is very easy for sanding.
7. Silk consistency - very little snagging after application.
8. Chemical accelerated set - ready for painting usually next day, in extreme situations after 3 days.

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TECHNICAL SPECIFICATION

Base binder: organic adhesive;
Colour: white; can be tinted;
Maximum thickness of one layer: up to 3 mm;
Average coverage: ca. 1kg/m² (applied on plasterboard);
Temperature of application (air and substrate): from +5°C to +25°C;
Maximum relative humidity: ≤ 85%;
Adhesion/cohesion (drywall): >0.25 [N/mm2];
Concrete substrate adhesion: ≥0.3 MPa;
Resistance to cracking: no cracks within the zone up to 50 mm from the thin wedge end.
Packaging: Single-use plastic packaging of 30 kg.
Storage: The product should be stored in its sealed packaging in a cool, but frost-protected room.
Shelf life: 12-month shelf life from date of production (production date and batch no. printed on the side of the packaging).

AREAS OF APPLICATIONS

Ready-to-use plaster for machine application of wall and ceiling surfaces inside buildings. Terrix® PL-SX-S is especially recommended as an alternative for skim coats and traditional internal plasters (with Terrix® RN-FC). Thanks to its white colour and smooth surface it allows to reduce a quantity of paint needed to achieve a full decorative effect. The product has a form of easy to apply compound, which after hardening, is very easy for sanding. Terrix® PL-SX-S can be applied on all types of mineral substrates such as concrete, cement renders, cement-lime renders, lime renders as well as skim coats and drywall.

Note: The product should not be used in rooms where constant relative humidity exceeds 70%.

APPLICATION METHOD

SUBSTRATE PREPARATION: Apply to a sound and clean substrate (without cracks and delaminations), degreased, 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. Terrix® PR-AR to be applied as per product manual. Any loose layers not bound to the substrate (i.e. dirt, dust, loose render or flaked coatings) should be removed. Old and/or dirty substrates should be washed off and degreased with water and CLEANFORCE agent. Existing holes, unevennesses and cracks should be filled in pursuant to the best construction practices. Substrates covered with well-set dispersion coating should be ground with a sandpaper and dedusted before the product application. Please note: if the product is applied on newly completed mineral substrates (i.e. cement-lime renders, cement-renders and concrete substrates) – a min. 2-week curing period is required.

PRIMING: Absorbent substrates should be primed with Terrix® PR-UA before spray plaster application.

PRODUCT PREPARATION: Product intended for direct use – do not dilute. Before application, the product should be thoroughly mixed.

APPLICATION: Apply a thin, uniform layer of product on the substrate at a thickness from film to 3 mm, using a spraying machine (airless method). In order to do it, special tools intended for applying spray plasters should be used (e.g. T-MAX of GRACO), as well as suitably powerful devices for the application of paints (e.g. MARK V of GRACO company or SPEEFLO PT6900 XLT DI of WAGNER company). While spraying, the gun should be directed perpendicularly towards the substrate at a distance of ca. 1.0÷1.2 m (T-Max GRACO) and ca. 0.5÷0.6 m (Mark V GRACO)

If greater unevenness is present, the material should be applied in a few layers after the previous layer hardens. After the surface dries, it may be sanded.

DRYING: 3 mm of he product applied on the substrate can be subject to further processing after ca. 12 hours (20°C, 55% RH). Substrate water absorption and air circulation in the room may significantly affect the drying time of the product.

USEFUL HINTS: To be applied on days with temperatures (air and substrate) between 5-25°C. All tools to be cleaned with water after finishing work.

comparison of systems

	property	traditional skim coat	PCC TERRIX® PL-SX-S spray plaster coat	Notes
1	Type of product	powder mixed with water	ready to use	very clean vs skim, does not required water
2	Application	manual	spray	
3	Speed of application	slow	very fast	2X 2 bed apartment per day/ one person
4	Processing	wet	easy sand	no mechanical sanders required
5	Drying	evaporation	chemical accelerated	suitable for winter application
6	Application time	slow	very fast	up to 500m2/day per person
7	Flatness	depends	very high	excellent surface quality
8	Price	low	low	comparable price to skim systems
9	Possibility to tint	none	can be tinted	

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Popular spray plaster vs Terrix® PL-SX-S

		Popular spray plaster	Terrix®	Notes
1	**No of coats**	Two coat application required	One coat application;	Due to the chemical, permanent bonding, one coat application is sufficient without creating any risk of cracks or delamination. Competitor's product creates a film on top of plasterboard, and the bonding is mechanical.
2	**Shelf life**	9 months of manufacture	Min. 12 months;	The different formulation allows for a longer shelf life. Terrix® spray plaster is usable even after a few years.
3	**Coverage**	Up to 22m2 per 25.0kg bag at 1mm thickness. 1.5mm min thickness required. Real usage - 16m2 from one bag	30m2 per tube , approx. usage 1kg/m$^{2;}$	Terrix® usage is 40% lower.
4	**Application thickness**	Applied as 1-2mm thick, after 2 coat application.	0 (film thickness) - 3mm in one coat;	Due to chemical bonding, there is no minimum thickness required. The product partly sinks into the plasterboard and provides additional reinforcement to it.
5	**Application themperature**	Should not be used below 5oC or above 30 deg C. Max air humidity 65% R.H.	5+ to 25deg C. Max air humidity 85% Rh;	Terrix® can be applied even during typical British winters when relative humidity is very high.
6	**Joint filler**	Allow to stiffen, typically 12-24 hours, this is dependent on adequate ventilation.	Ready to apply after 1-1.5h after joint filler application;	Due to the very high vapour permeability of the product, there is no long waiting time for joints to be dry. Once joints are touch dry Terrix® spray application can start.
7	**First coat**	Apply an even first coat of spray plaster to the walls and ceilings. Level flat with a levelling tool (spatula/ trowel).	The same as the other product;	
8	**Corners**	After 10 minutes finish internal/ external angles with a corner trowel.	No waiting is required;	10 minutes waiting is not required. The trowel can be used straight away.
7	**Drying**	Allow to dry, this will typically take12-24 hours.	12-24h even in unfavourable weather conditions due to partly chemical drying;	Terrix® plaster dries much quicker due to its accelerate chemical properties. The other product dries only by evaporation, which means in winter months it may take up to a week for to be suitable for sanding.
8	**Second coat**	Apply the second coat of spray plaster and repeat the process from the first coat, but this time applying more pressure to flatten the surface. Allow to dry, this typically takes12-24 hours.	Second coat is not required;	Terrix® is one coat system.
9	**Repairs**	All damaged areas must be repaired prior to the application of the spray plaster. Once complete apply spray plaster in accordance with manual.	Repair to the wall can be made before or after Terrix® spray plaster application;	Repairs can be done at any time as the product can join with existing coatings. Terrix® spray plaster is very easy for spot repairs which are not visible after application.

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