

REC TOP SL 1006HF

HIGH FLOW TWO COMPONENT SMOOTHENING UNDER LAYMENT

DESCRIPTION

REC TOP SL 1006HF is a mid-strength smoothing under layment. A two-component system consisting of a powered blend of cements, graded fillers and additives, and a pre-gauged polymer liquid. **REC TOP SL 1006HF** is suitable for depths between 2-12mm.

PRIMARY APPLICATIONS

- Specifically designed for use over a wide variety of sub floors including: concrete, sand & cement, calcium sulfate/anhydrite/hemihydrate screeds, existing cementitious underlayments, damp proof membranes and surface electrical radiant heating systems.
- Decorative permeable floor coverings such as open backed carpets can be applied to the internal sub floors in as little as 8 hours after the application of **REC TOP SL 1006HF**. Impervious floor coverings such as sheet vinyl and tiles can be applied after 10 hours.
- A moisture tolerant formulation makes it suitable for the pre-smoothing of floors prior to the application of surface damp proof membranes (DPM) and moisture vapour suppressants (MVS).
- Its protein free formulation means that it can be used in biologically sensitive areas.

KEY FEATURES

- Two-part system: cement-based powder + polymer liquid.
- High-flow, smooth consistency for effortless application.
- Rapid set: walkable in approximately 2.5 hours.
- Accepts most floor coverings quickly:
- Open-backed carpets: ~8 hours.
- Vinyl, tiles & impervious coverings: ~10 hours.
- Thickness range: 2 – 12 mm in one application.
- Moisture tolerant formulation.
- Suitable for use over underfloor heating systems.
- Low odour; protein-free, ideal for biologically sensitive areas.
- Conforms to BS EN 13813:2002 (CT-C25-F5).

TECHNICAL INFORMATION

TECHNICAL DATA	
Specification	BS EN 13813:2002
Screed Classification	CT-C25-F5
Working time at 20°C	20-30 mins
Walk on hardness time at 20°C	2.5 hours
Ready to receive floor coverings (based on 3mm application)	8 hours
Compressive Strength (N/mm ²): (to BS EN 13892-2)	1 Day: 12.0 7 Days: 14.0 28 Days: 25.0
Flexural Strength (N/mm ²): (to BS EN 13892-2)	1 Day: 3.0 7 Days: 3.5 28 Days: 5.0

DIRECTIONS FOR USE

SUBFLOOR PREPARATION

All surfaces must be dry and in a sound and stable condition free from contaminants that may prevent adhesion such as dust, oils, grease, surface laitance, water soluble adhesive residues and weak smoothing underlayments etc. Smooth dense surfaces must be roughened by mechanical scabbling to enhance the key. Sub floors should be tested in accordance with BS8203 to ensure a moisture reading of less than 75% RH should be achieved. Where this has not been attained or where there is uncertainty that the sub floor design incorporates a DPC then moisture barrier must be applied.

Reckon recommend consultation with sub floor preparation equipment suppliers to ensure correct equipment for the substrates is selected. All substrates must be at a minimum temperature of 5°C before, during and after application of the primer to ensure film forming and bonding is achieved.

PRIMING

RECKON CHEMICALS PVT Ltd. recommends that sub floors should be primed prior to the application of **REC TOP SL 1006HF**. Absorbent Subfloors (concrete, sand & cement and existing smoothing underlayments): Prime with REC Multi-surface Primer typically diluted 3 parts water, 1 part primer and allow to fully dry. Apply a second coat diluted 1:1 with clean water allowing it to dry to a film (1-2 hours). On highly porous substrates a third coat may be required diluted at 1:1 and allow to fully dry.

NOTE: To ensure a pinhole free surface is attained priming can be carried out using REC Multi-surface Primer. Specific priming requirements are needed for calcium sulphate/ anhydrite/ hemihydrate screeds (see Substrate section - Calcium Sulphate/Anhydrite/Hemihydrate Screeds).

Non-absorbent Subfloors (power floated concrete, epoxy resin and damp proof membranes): Priming with REC Multi-surface Primer is required when applying **REC TOP SL 1006HF** onto non-absorbent or dense substrates. Apply one coat neat and allow to fully dry.

MIXING

Shake the pre-gauged bottle of liquid prior to opening. Pour the entire contents of the liquid into an oversized bucket (20 liters or more capacity). Gradually add the powder whilst continually mixing using an electric drill fitted with a power whisk, suitable for use with cement materials. After completely adding the powder, continue mixing for a further 2 minutes, keeping the whisk below the surface of the product to minimize air entrainment, until a lump free creamy material is attained. **REC TOP SL 1006HF** should only be mixed as single units. Do not add further liquid or water.

APPLICATION

Pour onto the floor and spread with a smooth edge steel trowel. **REC TOP SL 1006HF** has exceptional flow characteristics, a spiked roller may be used to further improve the finish particularly between adjacent units of product. Only spike roll whilst the product is still in its fluid state (immediately due to the limited workability and rapid setting nature).

SUBSTRATES

Power Floated Concrete: Should be treated as non-porous. Mechanically abrade to remove surface hardeners and expose the cement/ aggregate. Apply REC Multi-surface Primer neat in a thin uniform coating, allowing it to dry fully (usually 1-2 hours).

Tamped or Pan Floated Concrete: These should be treated as porous, and any laitance or weak material should be mechanically removed to ensure a sound, dry and dust-free surface. Apply REC Multi-surface Primer diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). Apply a second coat diluted

1:1 with clean water allowing it to dry to a film (1-2 hours).

Sand/Cement Screeds: These should be strong enough for an application of **REC TOP SL 1006HF**. Weak, friable or damaged screed should be uplifted and repaired. Apply REC Multi-surface Primer diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). Two-coat primer application may be required for very absorbent screeds.

Existing Smoothing Underlayments: **REC TOP SL 1006HF** can be used over most intact cementitious cement underlayments. Remove adhesive residues and treat as an absorbent floor. Apply REC Multi-surface Primer diluted 3:1 with clean water and allow to dry fully (1-2 hours). Apply a second coat diluted 1:1 with clean water allowing it to dry to a film (1-2 hours).

NOTE: Application is only suitable on sub floors that are in equivalent strength to **REC TOP SL 1006HF**.

Calcium Sulphate/Anhydrite/Hemihydrate Screeds: Mechanically remove any laitance and provide a sound, clean, dry and dust-free surface. The relative humidity within the sub floor must read below 75% RH prior to the application of a barrier primer (damp proof membranes or moisture vapour suppressants are not recommended). These types of screeds often incorporate warm water underfloor heating systems, which can be used, along with dehumidifiers, to speed up the drying process.

Manufacturers normally suggest this can be conducted after 7 days minimum curing. Apply REC Multi-surface Primer diluted 3:1 with clean water and allow to fully dry overnight. Apply a second coat diluted 1:1 with clean water allowing it to dry to a film (usually 1-2 hours).

Pre-smoothing: **REC TOP SL 1006HF** can be used to on cementitious sub floors with residual moisture > 75 %RH to pre-smooth prior to applying an REC EPOXY FLOOR. Prepare the sub floor to leave a lightly textured dust free surface. Either prime with REC Multi-surface Primer diluted 3:1 with clean water and allow to fully dry or lightly dampen with clean water, allowing the surface to matt off. This will reduce pinholing.

NOTE: Pre-smoothing of sub floors where there is an absence of a base DPM can be carried out provided there is no risk of hydrostatic pressure and all previous materials have been removed to leave the cementitious base. If in any doubt always apply the DPM directly to the original sub floor.

Surface DPM and MVS: These are considered as non-absorbent substrates. Applications should be carried out within 12 hours of REC EPOXY FLOOR and/or Primer application.

Radiant Electrical Underfloor Heating Systems: Cables must be secured to a sound strong mechanically fixed cement faced backer board. It may also be used where electrical underfloor heating is used over cementitious or calcium sulphate sub floors. In all cases **REC TOP SL 1006HF** must be applied at a thickness of 5mm above the cables for resilient, textile and timber applications and a minimum of 3mm for application of stone, ceramic or porcelain products.

Warm Water Underfloor Heating Systems (UFH): Where UFH systems are incorporated, they must have been fully commissioned and brought up to their maximum temperature, and ideally switched off 48 hours before application. In the absence of other heat sources, the UFH may be set to 'cutback' position to achieve an air temperature of 15°C. Any expansion or movement joints must be carried through to the finished floor surface.

COVERAGE RATES		
Applied Thickness	Coverage Per Unit	Consumption Per 100m ² Area
2mm 5mm 10mm	6.0m ²	17 units
30mm	2.4m ²	42 units
	1.2m ²	84 units
	0.52m ²	192 units + 81 x 10kg aggregate

References to BS EN13813:2002 confirms the minimum compressive and flexural strengths that the product will attain when tested to the standard.

CURING AND DRYING

All curing and drying times are based on good site conditions i.e. an air temperature of 20°C, air humidity of 65% RH and good ventilation. Sites that are cold, humid or damp or in areas where the airflow is poor, will prolong drying and curing times, so allowances should be made accordingly. Applications to non-absorbent substrates and at thicker application depths will take longer to dry.

NOTE: Avoid strong drafts and direct sunlight during curing. **REC TOP SL 1006HF** is ready to receive light foot traffic normally after 2.5 hours based on a 3mm thick application.

CLEANING

Tools should be thoroughly cleaned in water to remove excess materials immediately after use.

PACKAGING

REC TOP SL 1006HF is available in 24 Kg Unit.

STORAGE

- **REC TOP SL 1006HF** have a shelf life of 12 months if kept in a dry store in the original, unopened packs. In tropical climates it is essential to store in air-conditioned warehouse.
- Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

