



Model Specification for Installation of Tekcem 025 Industrial Screed onto Flooring Grade Asphalt Using Tekcem TekGrip Bonding Primer (Bonded System – No Sealer, Max 20 mm Thickness)

1. Substrate Requirements

Substrate Type:

Flooring grade asphalt.

Minimum Compressive Strength (beneath asphalt):

25 MPa (supporting base or concrete layer).

Condition:

- Asphalt must be sound, well-compacted, and free from surface bleeding, crazing, or cracking.
 - Surface must be clean, dry, and free from bitumen bloom, grease, dust, or contamination.
 - Surface relative humidity (RH) must be $\leq 75\%$.
 - Asphalt must be stable under load and well bonded to its substrate. Soft, flexible, or degraded areas must be cut out and repaired.
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2. Mechanical Surface Preparation

Method:

Mechanically abrade the surface using STR machine or light grinding to remove surface laitance or contamination and improve bond.

Cleaning:

Vacuum thoroughly to remove all dust, particles, and residue.

Moisture Testing:

Perform RH testing in accordance with **BS 8203**. Screeding must not proceed if RH exceeds 75%.

3. Bonding Agent – Tekcem TekGrip

Product:

Tekcem TekGrip – fast-drying, textured bonding primer suitable for asphalt and other non-absorbent surfaces.

**Mixing:**

Shake container thoroughly before use to redistribute internal textured aggregate.

Application:

- Apply a uniform coat using a roller (brush for edges/detailed areas).
- Do not overapply or allow pooling.
- Allow to dry until fully **touch dry throughout** (typically ~20 minutes at 20°C).
- Avoid contamination and foot traffic before screed installation.

Coverage:

Approx. 0.075–0.11 kg/m² depending on surface porosity and texture.

Once dry, Tekcem TekGrip forms a green, textured surface to receive bonded screeds.

4. Tekcem 025 Industrial Screed Specification

Product:

Tekcem 025 Industrial – single-part, shrinkage-compensated, high-performance levelling screed.

Water Addition:

5.5 litres per 25 kg unit (max. 6 litres). Do not exceed.

Performance:

- Working time: 20–30 minutes
- Light foot traffic: ~3 hours
- Light forklift traffic: ~24 hours
- Full traffic: ~7 days
- Compressive strength:
 - 15 MPa (1 day)
 - 25 MPa (7 days)
 - 30 MPa (28 days)
- Flexural strength:
 - 4 MPa (1 day)
 - 6 MPa (7 days)
 - 7 MPa (28 days)

Thickness Limitation (Bonded over Asphalt):

- **Minimum:** 3 mm
 - **Maximum:** 20 mm
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5. Screed Application

Mixing:

Gradually add powder to water and mix with a low-speed drill or screed pump until smooth and uniform. Let stand for 2 minutes, remix, and apply within 30 minutes.

Placement:

Apply directly onto the **dry Tekcem TekGrip primed asphalt surface**. Spread with a trowel and finish with a spiked roller to remove air.

Environmental Conditions:

- Substrate temperature: 5–30°C
 - Ambient RH: <75%
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6. Post-Installation Guidance

Drying Guidance:

Allow approx. **1 day per 10 mm** of thickness under good drying conditions. Cold or damp environments will increase drying times.

RH Testing:

Conduct RH testing in accordance with **BS 8203** prior to installation of floor finishes.

Access:

- Light foot traffic: ~3 hours
- Full traffic: ~7 days

Finishes:

No resin sealer is applied as part of this system. Ensure residual moisture levels are suitable for the selected floor covering.

7. Disclaimer

The information provided in this specification is based on Tekcem's experience and current knowledge and is given in good faith to assist in specifying the installation of Tekcem products. It does not replace the need for appropriate design, professional judgement, and proper site evaluation. Tekcem Ltd accepts no liability for the improper use of its products or deviation from the recommended guidelines.

Site conditions, working methods, substrate types, and application techniques can all vary significantly and are beyond Tekcem's control. Therefore, it is the responsibility of the contractor and/or installer to ensure that the products are suitable for the specific conditions of each individual project.

This specification does not relieve the user of the responsibility to carry out appropriate checks, tests, and quality assurance procedures prior to and during application.

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