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Technical Data Sheet

CEMSEAL TRAKFLOR ED

EXPOSED DECK POLYURETHANE WATERPROOFING SYSTEM FOR OUTDOOR CAR PARKS

SYSTEM DESCRIPTION

CEMSEAL TRAKFLOR ED is a polyurethane waterproofing system designed for fully exposed outdoor car park decks, providing seamless waterproofing and a durable, UV-resistant traffic-bearing surface.

The system is available in two finish variants to suit different traffic requirements.

- TRAKFLOR ED-SF (Smooth Finish) for car park bays.
- TRAKFLOR ED-BF (Broadcast Finish) for driveways and ramps.

KEY FEATURES AND BENEFITS

- Provides seamless waterproofing protection for exposed concrete decks.
- Offers excellent UV stability and long-term colour retention.
- Delivers high abrasion resistance for pedestrian and vehicular traffic.
- Provides flexibility and crack-bridging capability.
- Offers smooth and broadcast finish options to suit different traffic areas.
- Uses a single-component polyurethane coating for convenient application.
- Can be applied directly onto suitably prepared concrete without a dedicated primer, subject to substrate conditions.

RECOMMENDED APPLICATION AREA

- Rooftop and fully exposed car park decks.
- Car park bays and parking lanes.
- Outdoor vehicular driveways and ramps.
- Exposed podium decks and other traffic-bearing concrete surfaces.

SYSTEM BUILD-UP

The CEMSEAL TRAKFLOR ED system comprises a polyurethane waterproofing coating and wearing surface, available in two finish variants to suit different traffic requirements.

Option 1: TRAKFLOR ED-SF (Smooth Finish) - Car Park Bays

Layer	Description	Products
1	Optional: Primer + Aggregate Broadcast	Cemseal P100SLF + Cemseal Quartz
2	Waterproofing Membrane	Cemseal PU800-TR
3	Wearing Coat	Cemseal PU800-TR

Option 2: TRAKFLOR ED-BF (Broadcast Finish) - Driveway and Ramps

Layer	Description	Products
1	Optional: Primer + Aggregate Broadcast	Cemseal P100SLF + Cemseal Quartz
2	Waterproofing Membrane	Cemseal PU800-TR
3	Wearing Coat	Cemseal PU800-TR
4	Anti-Slip Wearing Coat	Cemseal PU800-TR + Cemseal Quartz

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Tensile Strength	ASTM D412	≥ 20 N/mm²
Elongation at Break	ASTM D412	≥ 250%
Tear Resistance	ASTM D624	> 60 N/mm²
Abrasion Resistance	ASTM D4060	≤ 50 mg loss
Hardness (Shore A)	ASTM D2240	≥ 85
Slip Resistance	BS 7976-2	Dry ≥ 40, Wet depend on specification (in accordance with HSE and UKSRG guidelines)
Adhesion Strength (Pull-off)	ASTM D4541	≥ 2.0 N/mm²

SUBSTRATE QUALITY & REQUIREMENTS

- Concrete substrate must be at least 28 days old.
- Minimum compressive strength shall be 25 MPa.
- Minimum pull-off strength shall be 1.5 MPa.
- Moisture content shall be ≤ 4.0% when measured using the Tramex CM method.
- The surface shall be sound, clean and free from oil, grease, curing agents and other contaminants.
- Mechanical surface preparation, such as grinding or shot blasting, is required to achieve CSP 3–5.
- All dust shall be removed before coating application.
- The substrate should preferably be burnished during casting to improve density before surface preparation.

APPLICATION CONDITIONS & LIMITATIONS

Parameter	Requirement
Ambient Temperature	+5°C to +40°C
Substrate Temperature	+5°C to +40°C ; ≥ 3°C above dew point
Relative Humidity	≤ 85%
Moisture Content	≤ 4.0% (Tramex CM method)

IMPORTANT NOTES

- Ensure the substrate is dry, sound and properly prepared before application.
- Do not apply the system where rising moisture or hydrostatic pressure is present.
- Treat all cracks and critical details, including joints, drains and corners, before coating application.
- Maintain the substrate temperature at least 3°C above the dew point.
- Protect freshly applied coatings from rain, moisture and condensation during curing.
- Observe the recommended overcoating intervals to maintain intercoat adhesion.
- Do not expose the system to pedestrian or vehicular traffic until full curing has been achieved.
- The broadcast finish shall be specified according to the intended service conditions, and wet slip resistance shall be verified where required.
- Direct application onto bituminous surfaces is not permitted without a suitable isolation system.
- Adequate ventilation and appropriate personal protective equipment shall be provided during application.

INSTALLATION SERVICE

Installation shall be carried out by Cemseal-approved and trained applicators in accordance with Cemseal's documented quality assurance procedures and surface preparation guidelines.

Disclaimer:
The information and any recommendations relating to the application and end-use of all CEMSEAL products are provided in good faith based on CEMSEAL's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by CEMSEAL. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

For More Information:

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