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Technical Data Sheet

CEMSEAL TRAKFLOR SD

EPOXY COATING SYSTEM FOR SUSPENDED INDOOR & SEMI-EXPOSED CAR PARK DECKS

SYSTEM DESCRIPTION

CEMSEAL TRAKFLOR SD is a high-performance epoxy floor coating system designed for **suspended car park decks**, suitable for **indoor** and **semi-exposed** conditions. The system provides three finish profiles – Smooth (SD-SF), Broadcast (SD-BF), and Textured (SD-TX) – to meet varying skid resistance, aesthetic, and maintenance requirements.

System is available in 3 finishes:

- CEMSEAL TRAKFLOR SD-SF (Smooth Finish)
- CEMSEAL TRAKFLOR SD-BF (Broadcast Finish)
- CEMSEAL TRAKFLOR SD-TX (Textured Finish)

KEY FEATURES AND BENEFITS

- Seamless and monolithic coating system
- Adjustable slip resistance (smooth, broadcast, or textured)
- Excellent mechanical, abrasion, and chemical resistance
- Easy-to-clean and maintain
- Durable and aesthetic protection for suspended car park decks
- Suitable for light to medium vehicular traffic

RECOMMENDED APPLICATION AREA

- Intermediate decks of multi-storey car parks
- Suspended slabs over occupied spaces
- Semi-exposed or covered parking bays and lanes

SYSTEM BUILD-UP

Layer	Description	Products
1	Primer	Cemseal P100SL
2	Body Coat	Cemseal E100SL
3	Topcoat	Cemseal E100PU-Top 2K

FINISH VARIANTS

SD-SF (Smooth Finish)

- Primer : Cemseal P100SL
- Body Coat : Cemseal E100SL (applied smooth, no broadcast)
- Topcoat : Cemseal E100PU-Top 2k

SD-BF (Broadcast Finish)

- Primer : Cemseal P100SL, while wet broadcast with 20/40 mesh quartz sand to full rejection
- Seal Coat : Cemseal E100SL to lock the broadcast surface
- Topcoat : Cemseal E100PU-Top 2K

SD-TX (Textured Finish)

- Primer : Cemseal P100SL
- Body Coat : Cemseal E100SL mixed with 2% Cemseal HL200 (Thickener) and 10% 20/40 mesh quartz sand
- Topcoat : Cemseal E100PU-Top 2K

TECHNICAL PROPERTIES

Properties	Test Method	Typical Value
Compresive Strength	ASTM C579	> 60 N/mm^2
Flexural Strength	BS EN 13892-2	> 5 N/mm^2
Shore D Hardness (Taber, CS-17,1000g, 1000 cycles)	ASTM D4060	≤ 50mg loss
Hardness (Shore D)	ASTM D2240	≥ 75
Slip Resistance	BS 7976-2	Dry ≥ 40, Wet depend on specification (in accordance with HSE and UKSRG guidelines)
Adhesion Strength (Pull-off)	ASTM D4541	≥ 1.5 N/mm^2

SUBSTRATE QUALITY & REQUIREMENTS

- Concrete substrate must be at least 28 days old
- Minimum compressive strength : 25 MPa
- Minimum pull-off strength : 1.5 MPa
- Moisture content ≤ 4 % (by Tramex CM method)
- Surface must be sound, clean, free from oil, grease, curing agents, or other contaminants
- Mechanical surface preparation (e.g., grinding or shot blasting) is required to achieve CSP 3–5
- All dust must be removed prior priming
- Substrate should preferably be burnished during casting to improve density before surface preparation

APPLICATION CONDITIONS & LIMITATIONS

Parameter	Requirement
Ambient Temperature	+8°C to +35°C
Substrate Temperature	+8°C to +35°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, and do not apply the system where rising moisture or hydrostatic pressure is present.
- Maintain substrate temperature at least 3 °C above the dew point and protect freshly applied coatings from moisture and condensation for a minimum of 24 hours.
- Treat all cracks appropriately before coating, ensuring static cracks are filled and dynamic cracks are detailed according to best practice.
- Use consistent material batch numbers within each application area to achieve uniform colour and appearance.
- Avoid application under extreme environmental conditions such as direct sunlight, very high substrate temperature, or strong wind.
- Ensure adequate ventilation during the application and curing of all flooring systems to prevent moisture buildup, condensation, and surface defects.
- Respect the recommended overcoating intervals to avoid adhesion issues, trapped moisture, or surface defects.
- Do not expose the system to heavy loads or traffic until full curing has been achieved based on the specified curing schedule.

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:

CEMSEAL INDUSTRIES SDN. BHD. (884153-T)

Corporate Office: No. 10, Jalan Emas 29, Taman Sri Putri, 81300 Skudai, Johor, Malaysia.

Factory: No. 68, Jalan Perniagaan Setia 6, Taman Perniagaan Setia, Setia Business Park II, 81100 Johor Bahru, Malaysia.

Website: www.cemseal.com **Email: info@cemseal.com**

QMS - 005 100 19013
EMS - 005 104 19005

QMS - 44 100 19 92 0012
EMS - 44 104 19 92 0012