TDS_706
E-FLOOR

Technical Data Sheet
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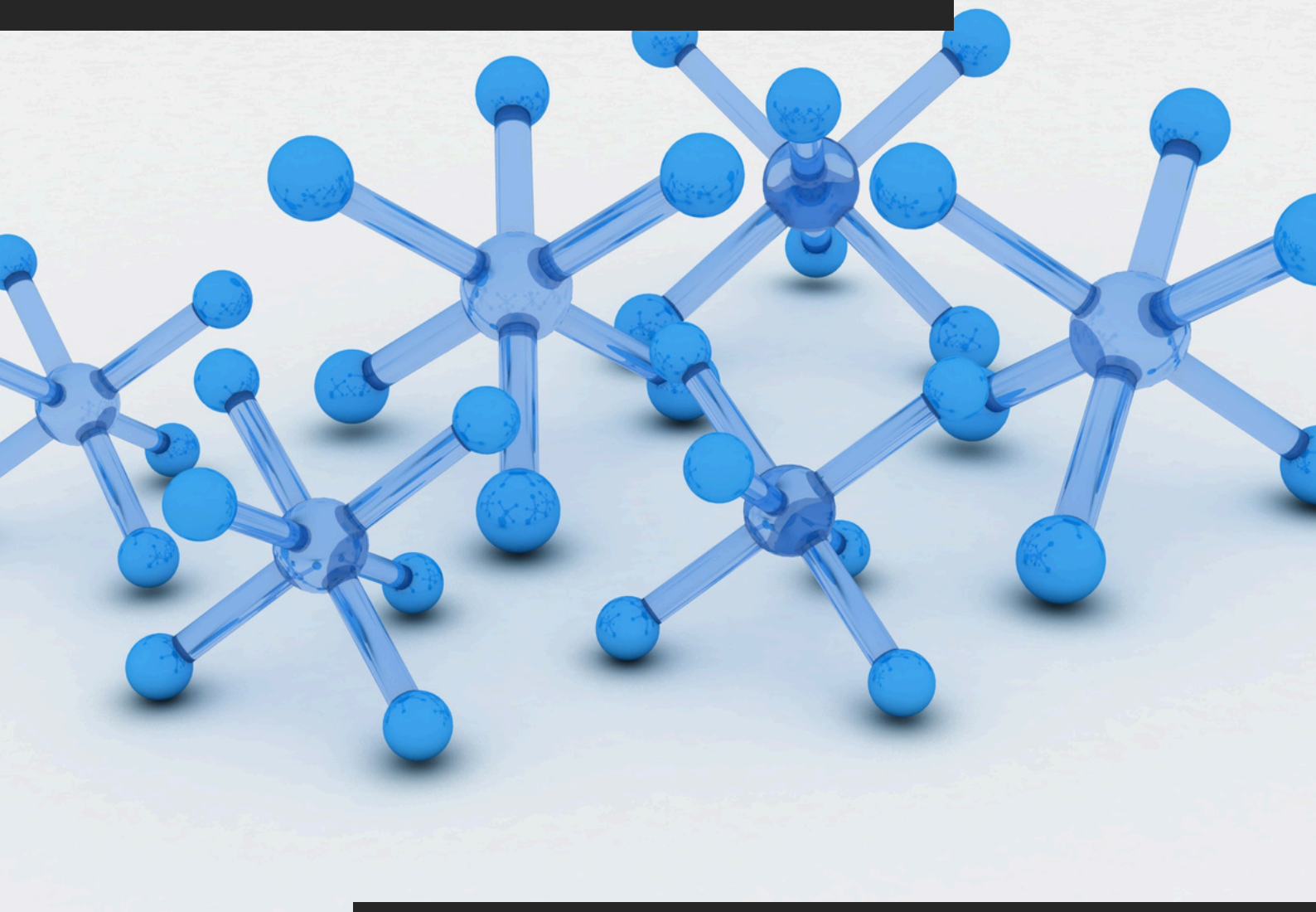

E-Floor™ TDS_2025_v1.0_EN

Visit our website and learn more about our products
akteonpaints.com

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TECHNICAL DATA SHEET

E-FLOOR

Single component, solvent-based, pure acrylic floor coating

Main Features:

1. Weather & UV resistance.
2. Lightfast & color retention.
3. Excellent chemical, bleach & alkali resistance.
4. Stain & dirt pick-up resistant.
5. Water resistant.
6. Fast drying.
7. Superior impact & abrasion resistant.
8. High heavy traffic tolerance.
9. Non-slip & non-skid finish option.

Applications:

1. Exterior & Interior use.
2. For cement-based substrates, asphalt & ceramic tiles.
3. Cement mortart and concrete constructions.
4. Industrial flooring - warehouses, production sites, workshops.
5. Stamped flooring.
6. For stone pavements, patios & courtyards.
7. For showrooms.
8. For cement-based surface waterproofing.
9. For road marking.

Technical Specifications & Typical Values

Binder Type	Acrylic
Colour	Available in bases: P, D & TR for tinting in any shade by using color-tinting machines and clear (varnish) state.
Thinner	Nitro Thinner
Density at 22°C (ISO 2811)	1.20 Kg/L
Solids %w/w	~ 55% *
VOC (2004/42/EC)	482 g/L – (A/i/SB) One-pack performance coatings - VOC compliant
Dry film thickness (2 coats) (ASTM D6132-13(2017))	124 ± 13.5 μm**
Cross-Cut Adhesion (ISO 2409:2013)	ISO Class 1
Pull Off Adhesion (ASTM D 4541)	4,98 ± 0,46 MPa
Hardness by Instrumented indentation (ISO 14577)	180 MPa
Chemical resistance (ASTM D1308 – 20)	1h – ultra thick bleach – no deterioration detected

*depending on the tinting base

**depending on surface absorption, tinting base & application method

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Technical Specifications & Typical Values

Method	Paint brush, roller, spray gun or floor-coating spatula
Coverage per coat	8-10 sqm/L**
Recoatability	24 h
Shelf life	12-24 months
Touch Dry Time at 22°C	20-30 min
Dry Through Time at 22°C	24 h
Ambient air temperature	min. +10°C / max. +40°C Expect considerable decrease in working times when temperature exceeds +35°C. (Might need to use extra nitro thinner) Consider the difference between substrate's temperature and ambient air temperature.
Relative air humidity	20 % min. / 55-60 % max.
Dew point	Substrate's temperature must be at least 3°C above the dew point to reduce the risk of condensation.
Substrate moisture content	< 8 % pbw - Oven-dry-method. **No rising moisture - Polyethylene-sheet method ASTM D 4263**
Curing time	Note: Times are approximate and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.
Foot traffic	~ 6-24 h ****
Light mechanical loading	3-5 days
Fully serviceable	7-12 days ****

*Depending on the tinting base

**Depending on surface absorption, tinting base & application method

***Drying times are temperature, humidity, and film thickness dependent

****For the purposes of this technical data sheet, "foot traffic" refers exclusively to light foot traffic, meaning stepping or walking without dragging, rolling, or moving heavy objects. This does not include activities that may exert excessive pressure or cause mechanical damage to the coating during its polymerization process of 7-12 days. To prevent potential damage, avoid placing or moving furniture, equipment, or other heavy items on the surface until the coating has fully cured as specified in the curing guidelines.

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E-FLOOR preparation:

Substrate quality & preparation:

1. The substrate must be cured, solid, clean, dry and free of all contaminants such as dust, dirt, oil, grease, surface treatments, etc.
2. Surface defects such as cracks, blow holes, and voids must be fully exposed and repaired.
3. Uneven substrate should be leveled to produce a roughened flat surface.
4. Cementitious substrates must be at least 4 weeks old in 22°C.

E-FLOOR preparation:
In the case of spray gun application, dilute E-Floor with 20% nitro thinner.

1. For stone pavements, road marking, and industrial flooring, high porosity-absorbent surfaces and cementitious substrates:
(There is no need to use a primer before E-Floor in dry and clear surfaces)

Apply 2 coats of E-Floor with 24h intervals:

- Apply E-Floor diluted with 20-25 % nitro thinner for substrate stabilization through high impregnation depth and surface crystallization effect.
- After 24h apply second coat of E-Floor diluted with 10% nitro thinner.

Important application remarks:

1. Untreated substrate defects could lead to reflective coating defects and reduced performance.
2. Substrate washing is not allowed before the application of solvent-based coatings.
3. The substrate's moisture should be less than 8% to avoid coating adhesion failure and film defects. To assure suitable substrate moisture, the ambient temperature must be 22°C for at least 12 days. Higher substrate moisture could result in a lack of coating adhesion and/or blooming.
4. Tool cleaning right after use with nitro thinner, always following the local HSE rules.

Packaging:
Metal can of **0.75-L** / **2.5-L** / **10-L** / **17-L**

Storage:
Shelf life: 12-24 months from the date of production, in original unopened packaging in a cool and dry condition between +5°C and +35°C. Protect from direct sunlight, heat, temperature extremes, and moisture. Failure to comply with the recommended storage conditions may result in premature deterioration of the product packaging and which may cause inconsistent workability, finish and cure times of the material.

Health, Safety & Environment:
Read the product label carefully before use. The Technical Data Sheet should be read in conjunction with the Safety Data Sheet.

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Paint System

Contact Akteon Paints for case-by-case recommendations at: **contact@akteonpaints.com** or visit **www.akteonpaints.com**