



# HYDROBLOC

BUILT ON PERFORMANCE

## PURACOAT 835

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### Aliphatic Polyurethane Floor & Concrete Coating – 2K System (High Performance, Semi-Flexible, UV-Resistant Coating)

#### Product Description:

A high-performance, two-component aliphatic polyurethane floor and concrete coating designed to provide a durable, semi-flexible, and UV-stable finish. The cured film offers excellent adhesion, chemical resistance, abrasion resistance, and long-term weathering performance, making it ideal for both industrial and decorative flooring systems.

#### Key Features & Benefits:

- Excellent UV and color stability
- (non-yellowing topcoat)
- High abrasion and impact resistance
- Good chemical and stain resistance
- Strong adhesion to concrete and epoxy primers
- Excellent flexibility and crack-bridging properties
- Smooth, easy-to-clean finish
- Available in gloss

#### Areas Of Application:

- Industrial & commercial flooring
- Car parks and garages
- Food and beverage processing plants
- Decorative and architectural flooring
- Protective topcoat over epoxy or PU self-levelling systems

#### Surface Preparation:

- Concrete should be clean, dry, and primed with compatible epoxy or PU primer.
- Moisture content <5%

#### Mixing Instructions:

Stir each component separately, then mix together (A:B) for 3–5 min using a low-speed mechanical stirrer.

#### Application Guidelines:

- For best results, use a roller, brush, or airless spray. If thinning is needed, use ≤10% Thinner.
- Re-coat after 8–24 h @ 25 °C.



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### Coverage/ Consumption:

Theoretical Coverage is 6.5 m<sup>2</sup>/L @ 100 μm DFT  
 Theoretical Coverage is 4.22 m<sup>2</sup>/KG @ 100 μm DFT

### Curing & Protection:

Touch Dry (25 °C): 3–4 hours  
 Hard Dry : 8–10 hours  
 Full Cure : 7 days

### Packaging:

PURACOAT 835 comes in a sets consisting of two components.

PURACOAT 835 (4.25kg set)  
 Component A : 3.27 kg  
 Component B : 0.98 kg

### Storage & Shelf life:

Store for up to 12 months in unopened packaging. Keep in cool, dry conditions away from frost and moisture and direct sunlight.

### Health & Safety:

Avoid skin and eye contact. Use gloves, goggles, and protective clothing. Ensure adequate ventilation during mixing and application. Refer to the Safety Data Sheet (SDS) for full handling and disposal information.

### Technical Data:

Property	Value
Type	2K Aliphatic Polyurethane
Appearance	Gloss or Satin Finish
Mix ratio (by weight)	3.35 : 1 (A:B)
Mix ratio (by volume)	2.57 : 1 (A:B)
Solids by Volume	65 ± 2%
Solids by Weight	90 ± 2%
Pot Life (25 °C)	60–90 min
Recommended DFT per Coat	40–60 μm
Theoretical Coverage	6.5 m <sup>2</sup> /L @ 100 μm DFT
Specific Gravity	1.37



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### Performance Properties:

Property	Value
Adhesion to Concrete	>2.5 MPa (Concrete failure)
Shore D Hardness	70–80
Elongation at Break	30–40%
Taber Abrasion (CS- 17, 1 kg, 1000 cycles)	<50 mg loss
Impact Resistance	>1.5 kg-m
Flexibility (Mandrel Bend, 3 mm)	Pass
Water Absorption (7 days immersion)	<0.5%
Gloss Retention (QUV, 1000 h)	>90% retained gloss

### Chemical Resistance:

Property	Value
Water (distilled / tap)	No effect
10% NaOH	No effect
10% H <sub>2</sub> SO <sub>4</sub>	No effect
Diesel / Engine Oil	No effect
Xylene	Slight dulling
Ethanol	Slight softening, recovers on drying
Detergent Solution	No effect
Brine (5% NaCl)	No effect

