PRO-STRUCT EPOXY FLOOR KIT

Durable water-based epoxy coating

PRODUCT DESCRIPTION:

Pro-Struct Epoxy Floor Kit is a water-based, two-component coating offering a durable, smooth and hygienic finish. It resists light chemicals, allows vapour permeability and suits household or light industrial concrete floors. Enhance with flakes, anti-slip beads, or polyurethane gloss sealer for a decorative finish. The Pro-Struct Epoxy Floor Kit comes in single and double garage kits (sold separately).

PRIMARY APPLICATIONS:

- Coating concrete floors, screeds and walls
- Indoor garages and utility spaces
- Kitchens, laundries and wet areas
- Workshops and storage rooms
- Sealing industrial, commercial and residential spaces

FEATURES & BENEFITS:

- Easy DIY application
- Foot trafficable in 24 hours
- Wear and chemical resistant
- Hygienic and seamless
- Vapour permeable
- Easily cleaned
- Can be applied to damp or green concrete
- No hot tyre pick-up

IMPORTANT:

Do not paint if the following conditions exist:

- **Newly poured concrete** – all newly poured concrete to cure for a minimum of 28 days before coating.
- **Sealed concrete** – drip a small amount of water onto the floor. If the water beads, a sealer is present and paint will not adhere properly.
- **Oil contamination** – look for visual signs of oil contamination. Drip a small amount of water onto the floor. If water beads, oil is present and paint will not adhere properly.
- **Poorly bonded paint** – remove any loose paints by sanding and scraping, then test adhesion of remaining paint.
  - Cut an X through the coating down to the concrete with a razor.
  - Press duct tape over the X, then remove with one quick pull.
  - If more than a quarter of the paint comes off, do not coat the floor until all the old paint is completely removed.

TYPICAL PROPERTIES AT 25°C

Composition	Water-based epoxy resin
Packaging	**Single garage kit (floor area of 21m²)** Pro-Struct Epoxy Granular Cleaner Degreaser (500g) Pro-Struct Epoxy Floor Concrete Etch (500g) Pro-Struct Epoxy Floor Base Coat Part A (0.67lt) Pro-Struct Epoxy Base Coat Part B (2.33lt) Pro-Struct Epoxy Floor Topcoat Part A (0.67lt) Pro-Struct Epoxy Floor Topcoat Part B (2.33lt) **Double garage kit (floor area of 42m²)** Pro-Struct Epoxy Granular Cleaner Degreaser (500g) x 2 Pro-Struct Epoxy Concrete Etch (500g) x 2 Pro-Struct Epoxy Floor Base Coat Part A (0.367lt) x 2 Pro-Struct Epoxy Floor Base Coat Part B (2.33lt) x 2 Pro-Struct Epoxy Floor Topcoat Part A (0.67lt) x 2 Pro-Struct Epoxy Floor Topcoat Part B (2.33lt) x 2
Components	Epoxy floor coat: 2
Consistency	Liquid
Finish	Semi-gloss / Satin
Colour(s)	Mid Grey & Cream
Mixing	Carefully read mixing instructions
Pot Life	45 Minutes
Application Method	Brush & roller
Application Temperature	15°C to 30°C
Coverage / Spread Rate / Yield	One 3 litre Pro-Struct Epoxy Floor Base Coat kit will cover 21m² (7.0m²/litre) One 3 litre kit Pro-Struct Epoxy Floor Topcoat kit will cover 21m² (7.0m²/litre)
Dry Film Thickness	0.12mm in 2 coats
Number of Coats	2

Drying / Curing Time	**10°C**	**20°C**	**30°C**
Light traffic	24 hrs	12 hrs	8 hrs
Full traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	14 days	7 days	5 days

Cleaner	Soap & water

- **Moist / damaged concrete** – if the concrete is loose, chipped or any laitance is present, coating will not perform properly. Repair damaged areas before applying coatings. Concrete must be visually dry before coated.

DIRECTIONS FOR USE:

Floor Preparation:

1. If the floor was previously painted / coated, the previously painted / coated surface should be sanded down to create a mechanical key.
2. Repair floor where needed.
3. Remove all oil, grease and other contaminants with Pro-Struct Granular Cleaner Degreaser. For light soiling, mix 5g/litre potable water. For medium soiling, mix 10g/litre potable water. For heavy soiling, mix 20g/litre potable water (recommended). Scrub thoroughly with soft bristle broom and repeat as needed. Rinse thoroughly with potable water to remove all residue.
4. Mix the entire contents of the Pro-Struct Concrete Etch granules with 8 litres of potable water. Use a watering can to evenly distribute the Concrete Etch solution.
5. Apply Pro-Struct Concrete Etch solution evenly whilst scrubbing with a stiff brush or broom, ensuring the floor remains wet until you are ready to rinse thoroughly, then squeegee excess water from the entire floor.
6. When the floor is dry, rub a black cloth on the concrete and check for a white film. If a white dust or powder is evident, repeat the rinsing process, being sure to thoroughly scrub during the rinse. Once the floor is free of surface residue, you are ready to begin application of the coating.

Mixing:

Pro-Struct Base Coat:

1. Empty Pro-Struct Epoxy Floor Base Coat Part A and Part B into a suitable clean container (5 litre minimum).
2. Mix thoroughly by mechanical means such as a low speed drill fitted with a paint mixer, taking care not to entrain air.
3. Mix for approximately 3 minutes or until a smooth homogenous mixture is obtained. Mixed material should be used / applied within 45 minutes at 25°C.
4. Never split batches / components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in colour, etc.

Pro-Struct Topcoat:

1. Empty Pro-Struct Epoxy Floor Topcoat Part A and Part B into a suitable container.
2. Mix thoroughly by mechanical means such as a low speed drill fitted with a paint mixer, taking care not to entrain air.
3. Mix for approximately 3 minutes or until a smooth homogenous mixture is obtained. Mixed material should be used / applied within 45 minutes at 25°C.
4. Never split batches / components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in colour, etc.

Application Instructions:

1. For brushing, use a good quality synthetic brush to trim the edges (if desired).
2. For rolling, use a short hair mohair roller. Keeping a wet edge is very important to prevent lap marks or gloss differences.
3. Apply Pro-Struct Epoxy Floor Base Coat on the prepared concrete floor at 7m^2/litre.
4. The Pro-Struct Epoxy Floor Top Coat is applied when the first coat is dry. The topcoat should be applied after at least 12 hours, and no later than 24 hours after the first coat at 7m^2/litre.
5. Apply at a temperature range of 10°C to 30°C.

NOTE: Coverage rates are theoretical. Actual coverage rates may vary and more material might be required for rough profiles. Make necessary allowances for the conditions of the surface to be coated, working conditions, waste, spillages, experience level and skill of the installer, etc.

Optional System (sold separately):

- An optional Pro-Struct Decorative Flake can be applied into wet topcoat.
- Floor can be sealed with an optional Pro-Struct Polyurethane Floor Sealer Gloss. If a skid resistant texture is required, mix Pro-Struct Non-Slip Additive into Pro-Struct Polyurethane Floor Sealer Gloss prior to coating.

Cold Conditions:

Low temperatures decrease flow, delay set and affect water resistance and final appearance. Materials should be conditioned for 16 hours at 21°C to 27°C; heaters should be utilised to warm floors.

Curing:

If temperatures are between 16°C to 30°C, the coating system can be exposed to light foot traffic after 24 hours. Excessive traffic, aqueous cleaning and exposure to chemicals should only take place after 7 days, when full cure has been achieved.

REFERENCE SAMPLE:

A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverages and workmanship.

STORAGE CONDITIONS:

The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 15°C to 30°C. This improves the mixing, flow, penetration and hardening of the product. Make sure there is good ventilation. This accelerates hardening and improves the finish of the product. Maximum permitted relative humidity is 70%. Store all components of Pro-Struct Epoxy Floor Kit between 16°C and 32°C in a dry area. Avoid excessive heat and do not freeze.

PRECAUTIONS / LIMITATIONS:

- DO NOT attempt to install material if temperature of components and substrate are not within 16°C to 30°C. The cure time and application properties of the material are severely affected.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Protect areas from dust and isolate access. Contamination between layers will affect the final appearance.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with protective creams or rubber gloves and wear safety glasses.
- Use only with adequate ventilation.

NOTES:

- Material safety data sheets are available on request.
- A staff of technical service engineers is available to assist in installation or to answer questions related to our flooring products specifically, or flooring problems in general.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located nationally.

TECHNICAL INFORMATION:

Property	Test Method	Typical Results
VOC	USEPA Method 24	26g/litre
Abrasion Resistance	Taber Abrader	15mg loss per 1000 cycles (1kg load using CS17 wheels)
Vapour Permeability	ASTM E96:90	20g/m^2/mm/24 hours
Thermal Resistance	BS 476: Part 7	Class 1
Surface Hardness	Koenig Hardness Test	182 seconds
Bond Strength		>1.5 MPa concrete failure