TECHNICAL DATA SHEET

CORPRO 320

1. Product Description

CORPRO 320 is a solvent-free, self-leveling, aliphatic amine-cured epoxy floor coating designed to provide a seamless, high-build, and durable finish for concrete floors. Its self-priming formulation ensures excellent adhesion to properly prepared concrete while delivering outstanding abrasion, chemical, and impact resistance for demanding industrial and commercial environments.

2. Product Features

- ✓ Good adhesion to properly prepared concrete substrates or sound painted floors
- ✓ High gloss
- ✓ High abrasion and chemical resistance
- ✓ Resistant to wet and humid environments.
- ✓ Available in standard colours.
- ✓ Gloss finish.

3. Application guideline

Substrate Requirements

- Concrete must be **structurally sound**, with a minimum compressive strength of **≥ 25 MPa**
- Surface must be **dry, clean, and free from contamination**
- Moisture content should be **≤ 4%** (or as per project specification)
- Relative humidity of substrate should be within acceptable limits to avoid blistering

Cleaning

- Remove all **dust, dirt, oil, grease, wax, and contaminants**
- Degrease contaminated areas using suitable industrial degreasers.
- Rinse thoroughly and allow to dry

Mechanical Surface Preparation

To achieve proper adhesion, the surface must be mechanically profiled:

- Use **diamond grinding, shot blasting, or scarifying**
- Aim for a surface profile equivalent to **CSP 2–4** (ICRI guideline)
- Remove all laitance and weak surface layers
- Avoid acid etching unless absolutely necessary (less preferred for industrial systems)

Repairs and Leveling

- Open up cracks and repair using **epoxy crack filler or repair mortar**
- Fill holes, blowholes, and surface imperfections
- Treat expansion joints as per system design (do not rigidly seal movement joints unless specified)
- Ensure repaired areas are flush with surrounding surface

Dust Removal

- Vacuum thoroughly using **industrial vacuum equipment**
- Ensure the surface is completely dust-free before priming.

Mixing

Pre-mix Component A (resin) to uniform consistencyAdd Component B (hardener) in the specified ratio

Mix using a slow-speed mechanical mixer (100–300 rpm) for 2–3 minutes

Scrape sides and bottom to ensure complete mixing

Avoid air entrapment during mixing

Do not mix partial quantities unless accurately measured

Pot Life:

Use the mixed material within the specified pot life (typically 20–60 minutes at 25°C)

Higher temperatures will reduce pot life

Do not use material that has begun to thicken or gel

Application

Pour the mixed **CORPRO 320** onto the prepared substrate and spread uniformly using a **notched squeegee or gauge rake** to the specified film thickness. Immediately de-aerate with a **spiked roller** while maintaining a wet edge to produce a smooth, seamless finish. Brush only around edges, corners,

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and other inaccessible areas. Apply within the recommended film build and avoid overworking the coating after placement..

Chemical resistance guide

Chemical Resistance: Correctly cured films of CORPRO 320 are resistant to water-based chemicals, oils, fuels, fats, detergents, and many acids and alkalis, including 25% ammonia water, petrol, beer, n-butyl ether, cyclohexane, diesel oil, ethylene glycol, glycerol, white spirits, paraffin, perchloroethylene, cod liver oil, linseed oil, olive oil, castor oil, silicone oil, vegetable juice, milk, soap solution, 50% caustic solutions, 30% brine, 80% phosphoric acid, 50% sulphuric acid, 20% hydrochloric acid, 10% nitric acid, 10% oxalic acid, and 5% acetic acid.

Note: Chemical resistance applies only to fully cured coatings under normal service conditions and may vary with chemical concentration, temperature, and exposure time. Remove spillages promptly to maximize coating life.

Surface Condition:

Substrate temperature: 10°C – 35°C
Ambient temperature: 10°C – 35°C
Relative humidity: < 85%
Substrate temperature must be at least 3°C above dew point.

Recoating

Apply next coat within specified recoat interval
If exceeded, abrade surface before recoating

Curing

Touch dry: 6–8 hours
Light foot traffic: 24 hours
Light service: 48–72 hours
Full cure: 5–7 days

Cleaning of Tools

Clean immediately with Epoxy thinner
Cured material requires mechanical removal

4. Physical Properties

Viscosity	100–103 KU (Stormer, 25°C)
Colours	standard colours
Touch Dry	1 hour at 25°C
Recoat time	12 hours at 25°C
Hard dry	24 hours
Density	1.02 –1.01 g/cm³
Recommended DFT/ coat	1-3 mm
Coverage	1 m²/kg at 3mm DFT
Volume solids	100%
Packaging	5:1 (curing agent in separate container) i.e 5kg base : 1 kg curing agent

5. Safety Precautions

- Always keep paint out of reach of children.
- Ensure good ventilation during application and drying.
- If accidental contact with skin should occur, wash immediately with soap and water. Take care to avoid contact with the eyes. In case of contact, immediately rinse the eyes with plenty of water and seek medical attention.
- Harmful if swallowed. Seek medical attention and do not induce vomiting.
- Do not smoke while painting.
- Flammable. Store in a cool dry place away from heat and sparks.
- Refer to Safety Data Sheet for complete information.

5. Technical Support

For further information or technical support, please contact O'Grady's Coatings Group at
+27 13 2462570 or +27 21 905 0533 or
e-mail:technical@ogrady.co.za

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