

# HITCHINS

## TECHNICAL DATASPEC

# FORMROK 201

## EPOXY FLOOR COATING

**December 2014**

**NO.1431 v2**

### Description

**Formrok 201** is a two component solvent based epoxy chemically resistant interior floor coating process available in a range of standard colours in a smooth gloss and sandy finish

### Recommended Uses

- **Formrok 201** is general all purpose hard wearing concrete floor coating ideal for wide range of light to median commercial and industrial areas to provide long term performance and chemical protection to the substrate.
- Suitable areas where Formrok 201 will offer protection: cool rooms, wineries, small goods factories, battery room, ablution blocks, laundries, clinics, food processing and laboratories.
- **Formrok 201** provides an economic durable floor finish easy to keep clean.
- Harsh industrial use requires Formrok screed finished in Formrok 201.
- Harsh industrial existing badly pitted or eroded concrete floors requires Formrok screed finished in Formrok 201.

### Features

- **Formrok 201** process provides a smooth glossy interior floor finish
- **Formrok 201** sandy process provides non-slip durable finish. (0.3mm)
- **Formrok 201** process can encapsulate BX grit ideal for wet areas. (1mm)
- **Formrok 201** process provided good chemical resistance protection.
- Very good resistance to water spotting and amine blush at ambient and low temperatures
- Readily cleaned with hot water and detergent.

### Limitations

- Requires sound non-cracked reinforced concrete floor well prepared.
- Should not be installed over expansion joints or bad cracked floors
- Should not be used in areas subject to heavy machinery traffic & equipment with steel wheels or feet.
- Staining may occur if subjected to water before fully cured (7 to 15 days).
- Solvent bases, will taint food, application requires good venting and or the wearing protection mask, gloves and clothing.

### Technical Data

Classification	2 Pot Epoxy		
Finish	Smooth or Non-skid	Clean Up	Hitchins Thinners N° 13
Pot Life	2 hours	Dry Time (18°C@65rH)	Tack-free 5 hours
Application Temp Range	10° – 35°C	Shelf Life	3 years
Flash Point	23°C	Solids Content	Mix A:B 90% by weight
Cure Time (18°C@65rH)	7 days	Recoat Time	16 hours
Coverage Rate	7 - 8m <sup>2</sup> /litre	Application Method	Brush, roller
V.O.C	120g/litre Mix A:B	Packaging	1, 4, & 16L Batches
Colour	Available as per Hitchins Floor Coating Chart		
Specific Gravity kg/litre	Comp A: 1.37, Comp B: 1.05, Mix: 1.29		

### Chemical Resistance

Formrok 201 is resistant to a wide range of chemicals  
Resistance to spillage at ambient temperatures

Sulphuric Acid 50%	Hydrochloric Acid	Acetic Acid 5%
Citric Acid 30%	Sodium Hydroxide 35%	Lactic Acid 5%
Sodium Chloride (sat.sol)	Sydrol	Petrol
Mineral & Vegetable Oils	Diesel	De-ionised Water

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### Surface Preparation

- Concrete floors designed and built with falls to drains and providing expansion joint chases at 4 M<sup>2</sup> centres, both ways.
  - All new concrete surfaces to be coated must be cured for a minimum of 28 days and be free of curing, bond breakers, form release agents, efflorescence, oil, dirt, dust, nibs or concrete splashes, and thoroughly cleaned and dry.
  - Nibs, protrusions and uneven surfaces should be ground smooth.
  - Dense smooth concrete etched, rinsed 2-3 times and washed clean.
  - Existing concrete de-greased, etched, ground and washed clean
  - Existing coated floors de-greased, scrub, and ground then washed clean.
  - Minor cracking Formrok injection grout process and ground smooth.
  - Imperfection, holes etc flushed out with Epo-flush 604 and ground.
  - Covers to upstands produced in Epo-flush 604 or Epo-fill 802.
  - Associated adjacent timber, steel etc. suitably prepared & primed with Pre-seal, Speedspray 10 or Jotamastic 87.
  - To dry, dust free concrete apply penetrating **Formrok 201** primer
- Notes
1. Protect stainless steel and adjacent surfaces when etching floor.
  2. Formrok sealant to chases after **Formrok 201** applied and dry.

### PRIMERS

#### Substrates

#### Primer

Dense smooth concrete

Etched and sealed with **Formrok 201** primer

Concrete reinforced screed.

Sealed with **Formrok 201** primer.

### Application

- Primer and two coats **Formrok 201** to produce smooth glossy finish.
- Primer and two coats **Formrok 201** incorporating J61 silica sand to produce a sandy non-slip finish.
- Primer, coat of **Formrok 201**, broad caste in BX filler, lock in with over-coat of **Formrok 201**, when dry apply top-coat of selected colour.
- **Formrok 201** coating applied by brush and woolly roller sleeve.
- Allow full dry 4 – 6 hours between coats
- For good inter-coat adhesion apply next coat within 24 hours.
- Don't split batches, mix well by one mixer, and apply within pot life.
- Large floor projects ensure correct number of installers.

### Cure

Allow seven (7) days before floor put in use.

### Coverage

**Formrok 201** Primer: 11m<sup>2</sup> per litre  
**Formrok 201**: 7 to 8m<sup>2</sup> per litre  
**Formrok 201** lock-in coat at 3 to 4 M<sup>2</sup> per litre.

### Health and Safety

**Formrok 201** contains volatile solvents and toxic materials capable of harming an operator's health.  
 Ensure adequate ventilation in the work area at all times by forced draught if necessary, and that operators wear masks fitted with correct type of filter when mixing or applying the materials.  
 Exposed skin should be protected with gloves, overalls and barrier creams.  
 Refer to the Safety Data sheets 1431 for A and B components.

### Non Compliance Warning

Do not apply or install any Hitchins product or process to building structures that do not comply with the Building Code.

### Warranty

**Formrok 201**, as part of a process, is covered under the Hitchins Product Performance Warranty Document for "that" products process, as per our Warranty Schedule.