



# CONSOL FLOOR 361

## Self Smoothing Solvent Free Epoxy Resin

### DESCRIPTION

**CONSOL FLOOR 361** is two components binder for:

- High build coating
- Self-smoothing floors
- Broadcast floors

### RECOMMENDED FOR

**CONSOL FLOOR 361** is suitable when used in:

- Concrete floors
- Cementitious Mortar Screed
- Epoxy Cement Floor
- Epoxy Mortar Floor

**CONSOL FLOOR 361** is recommended for:

- Production floor
- Packaging areas
- Workshop floor
- Car park floor
- Laboratory floor
- Food processing areas
- Storage areas
- Etc.

### BENEFITS

**CONSOL FLOOR 361** provides the following beneficial properties such as:

- Low viscosity
- Good chemical and mechanical resistance
- Easy application
- Gloss finish
- Solvent free
- Low odour
- Excellent bonding strength
- Non Toxic
- Sea water resist

### COVERAGE

Material consumption approx. 0.6 – 1.8 kg/m<sup>2</sup> depends on requirement thickness

### PRODUCT DATA

#### Form

Liquid

#### Color

Resin- Part A : Coloured, liquid  
Hardener- Part B : Transparent, liquid

- Available in the following standard colours: RAL 7032, 1001, 6010 & 6011 (refer to standard colour chart). Additional colour shades on request.
- Under direct sun radiation there may be some discolouration and colour deviations, this has no influence on the function and performance of the coating.

### Packaging

Part A : 10 kg  
Part B : 5 kg

### Storage

12 months if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 18°C and 30°C

### TECHNICAL DATA

#### Chemical Base

Epoxy

#### Density (20°C)

Part A ~ 1.16 kg/L  
Part B ~ 1.02 kg/L

#### Solid Content

~100% (by weight) / ~100% (by volume)

#### Chemical Resistance

Resistant to many chemicals. Please contact our technical service for specific information

#### Service Temperature

Min. 10°C  
Max. 50°C

#### Shore D Hardness

80 (7 days at 23°C)

#### Compressive Strength

±65 N/mm<sup>2</sup> (28 days at 23°C)

#### Flexural Strength

±30 N/mm<sup>2</sup> (28 days at 23°C)

#### Bond Strength

>1.5 N/mm<sup>2</sup> (failure in concrete)



**Abrasion Resistance (ASTM D4060: 2007)**  
0.12 gram (CS17, 1 kg load, 1000 cycles)

## INSTRUCTION FOR USE

### Substrate Condition

Surfaces must be structurally sound, clean, and free from loose particles, oil, grease, and all other contaminants. The compressive strength of the substrates shall not be less than 20 N/mm<sup>2</sup> and the bond strength of the substrate must be at least 1.5 N/mm<sup>2</sup>. The substrate temperature shall not be less than 10°C min. / 30°C max.

### Surface Preparation

Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membrane and other contaminants must be removed from the surface by shot blasting, scarifying or grit- blasting followed by vacuum cleaning.

### Ambient temperature

10°C - 30°C

### Substrate temperature

10°C - 30°C

### Substrate Moisture Content

≤4% pbw moisture content

### Relative Air Humidity

80% r.h. max

### Dew Point

Beware of condensation.

The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish

## APPLICATION SYSTEM

### High Build Coating

1. Surface preparation: shot blasting machine
2. Base coat : **CONSOL FLOOR 161** = 0,3-0,7 kg/m<sup>2</sup>
3. Top coat : **CONSOL FLOOR 361** A+B : approx. 0,6 – 0.8 kg/m<sup>2</sup>, may be add with silica flour approx. 0.36 – 0.56 kg/m<sup>2</sup>

Mixing Ratio :

Component A : B : silica flour = 10 : 5 : 10-16 per part

### Self Smoothing Floors

1. Surface preparation : Shot blasting machine
2. Primer : **CONSOL FLOOR 161** : 0,3-0,7 kg/m<sup>2</sup>
3. Top coat : **CONSOL FLOOR 361** A+B: 0.6-1.8 kg/m<sup>2</sup>

Mixing ratio :

Component A : B: silica flour= 10 : 5 : 10 part by weight

### Broadcast Floor

1. Surface preparation : Shot blasting machine
2. Primer : **CONSOL FLOOR 161** : 0,3-0,7 kg/m<sup>2</sup>
3. Body coat : **CONSOL FLOOR 361** A+B : Approx. 0.2 kg/m<sup>2</sup>
4. Broadcasting with silica flour : approx. 1-2 kg/m<sup>2</sup>
5. Top coat : **CONSOL FLOOR 361** A+B: approx. 0.7 kg/m<sup>2</sup>

Mixing ratio :

Component A : B = 10 : 5 part by weight

### Application in Green Concrete/Fresh and Damp Concrete

Primer : use **CONSOL FLOOR 163 (DAMP SURFACE)**

Substrate: The concrete substrate must be at least 28 days and moisture content max. 5%

### Mixing

Prior to mixing stir part A mechanically. When all part B has been added into part A, mix continuously using slow electric mixer (approx. 300-400 rpm) for 2 minutes until a uniform mix has been achieved. When part A and B have been mixed, the silica flour must be mixed with part A and B for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimize air entrainment.

### Pot Life

Temperature	Time
+ 10°C	~50 minutes
+ 20°C	~25 minutes
+ 30°C	~15 minutes

### Curing Time

Before applying **CONSOL FLOOR 361** on **CONSOL FLOOR 161** allow:

Substrate Temperature	Minimum	Maximum
+ 10°C	24 hours	3 days
+ 20°C	12 hours	2 days
+ 30°C	8 hours	1 day



Before applying **CONSOL FLOOR 361** on **CONSOL FLOOR 361** allow:

Substrate Temperature	Minimum	Maximum
+ 10°C	30 hours	3 days
+ 20°C	24 hours	2 days
+ 30°C	16 hours	1 day

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

#### Applied Product Ready for Use

Temperature	Foot Traffic	Light Traffic	Full Cure
+ 10°C	~72 hours	~6 days	~10 days
+ 20°C	~24 hours	~4 days	~7 days
+ 30°C	~18 hours	~2 days	~5 days

Times are approximate and will be affected by changing ambient conditions.

#### Cleaning of Tools

Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

#### Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

#### PRECAUTIONS

- **CONSOL FLOOR 361** contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled
- Keep away from open light, including welding
- Avoid contact with skin and eyes
- Wear protective glove and eye protection during work
- If skin contact occurs, wash skin thoroughly
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay