



CONSOL FLOOR 251 TC

2-Part Water Based Epoxy Sealer Coat

DESCRIPTION

CONSOL FLOOR 251 TC is a water dispersed, solvent free, coloured, semi glossy-finish, two part epoxy resin based coating high performance. It provides a protective surface treatment for concrete floors and walls.

RECOMMENDED FOR

- Coloured sealer coat for concrete and cementitious substrate
- Coloured sealer coat for the wall and ceiling
- Can be subjected to normal up to medium duty mechanical and chemical.
- For production areas, warehouses, car park decks, show rooms, automotive production area, garages, abattoirs, food processing area, laboratories, storage areas, breweries, tunnel walls, ground water tanks, waste water treatment, decontaminable areas, pharmaceutical, etc.

BENEFITS

- Good chemical and mechanical resistance
- Good bond, also on mat moist substrate
- Water vapour permeable
- Solvent Free
- Water dilutable
- Odourless
- Easy application
- Prevent dusting
- Easy to Clean
- Non Toxic
- Sea water resist

PRODUCT DATA

Appearance/ Colours

- Resin – part A: transparent, liquid
- Hardener – part B: coloured, liquid
- Available only in the following standard colours: RAL 7032, 1001, 6010 & 6011 (refer to standard colour chart)
- Under direct sun radiation there may be some discolouration and colour deviation, this has not an influence on the function and performance of the coating.

Packaging

Part A+B: 10 kg ready to mix

Shelf-life

12 months from date of production if stored properly in original, unopened and undamaged sealed packing, in dry conditions at temperatures between $\pm 18^{\circ}\text{C}$ and under 30°C .

TECHNICAL DATA

Chemical Base

Epoxy, waterborne

Density, Values at 25°C

Mixed Resin: 1,22 kg/L

Solid Content

~55% (by weight)

Chemical Resistance

Resistance e.g against sodium chloride solution, ammonium sulphate 10%, calcium chloride 10%, ammonia 5%, sodium hydroxide 50%, glycerin, petrol, diesel, fuel oil, disinfectants, fruit juice, and others.

Dosage

Light exposure

Base coat 1 x Consol Floor 251 PRIMER ($\pm 0.15 - 0.2 \text{ kg/m}^2$)
Top coat 1-2 x **Consol Floor 251 TC** ($\pm 0.15 - 0.2 \text{ kg/m}^2$)

Medium exposure

Base coat 1-2 x Consol Floor 251 PRIMER ($0.3 - 0.7 \text{ kg/m}^2$)
Top coat 3 x **Consol Floor 251 TC** ($0.15 - 0.2 \text{ kg/m}^2$)

Wall/ Ceiling

On gypsum plaster boards and plaster
Base Coat 1 x Consol Floor 251 PRIMER $\pm 10-15\%$ water ($\pm 0.1 - 0.15 \text{ kg/m}^2$)
Top Coat 2 - 3 x **Consol Floor 251 TC** ($\pm 0.1 - 0.15 \text{ kg/m}^2$)
On strongly absorbent surface, pre damping of the surface is recommended.

Mechanical Properties

Continuous exposure 60°C

Heat Resistance

Short term exposure 100°C



INSTRUCTION FOR USE

Substrate Preparation

- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed
- High spots must be removed by e.g. grinding
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- The concrete or sreed substrate has to be primed or leveled up in order to achieve an even surface.
- The cementitious substrate should be sound and of sufficient compressive strength. Minimum pull off strength 1.5 N/mm²

Mixing

Part A: part B = 20 : 80 (by weight)

Application Method/ Tools

- Prior to application, confirm substrate moisture content, r.h and dew point.
 - Prior to mixing stir part B mechanically. When all of part A has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.
 - Primer
- Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. When used as a primer always apply by brush.
- Coating

CONSOL FLOOR 251 TC is spread evenly by means of a short pile roller.

A seamless finish can be achieved if a wet edge is maintained during application.

Methods

To maintain the appearance of the floor after application, Consol Floor 251 must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubber dryer, high pressure washer, wash and vacuum techniques etc. Using suitable detergents and waxes.

Chemical resistance waiting time between coats

	10° C	20° C	30° C
Foot traffic	48 hrs	24 hrs	24 hrs
Lightly serviceable	5 days	3 days	2 days
Fully serviceable	10 days	7 days	5 days

Limitation

- The "gloss" of the finish, can vary with temperature and the absorbency of the substrate
- For exact color matching, ensure the **CONSOL FLOOR 251 TC** in each area is applied from the same control batch number.
- **CONSOL FLOOR 251 TC** finish appearance very depends on humidity and ambient temperature. To get uniform colour application for final coat for one area shall be conducted continuously at one single (one go) coating application.
- At least two coats, depending on intended use.

Cleaning

Use soap and water. Hardened material may have to be mechanically removed.

Cautions

Apply barrier cream to hands. In case of contact with eyes or mucous membrane clean immediately with warm water.

Chemical resistance waiting time between coats

	10° C	20° C	30° C
Min	24 hrs	12 hrs	10 hrs
Max	3 days	2 days	2 days