



CONSOL FLOOR 92

High Strength Epoxy Resin Screed

DESCRIPTION

CONSOL FLOOR 92 is 3-component solvent free epoxy resin based mortar for patching and screeding industrial floors subject to heavy traffic.

RECOMMENDED FOR

CONSOL FLOOR 92 is mainly used for the following applications:

- Warehouses
- Machine shop
- Workshop
- Chemical plants
- Water treatment plants
- Steel works
- Breweries
- Pharmaceutical areas
- Storages area

BENEFITS

CONSOL FLOOR 92 bring some benefits such are:

- High mechanical resistant
- Chemical resistant
- Easy to apply
- Excellent application properties
- Easily maintained

PRODUCT DATA

Form

Liquid

Appearance

Part A Transparent

Part B Brownish

Part C Powder

Storage

Dry, shaded place. Protect from direct sunlight and frost.

Packaging

Part A : 6.75 kg

Part B : 3.25 kg

Part C : 50 kg

Part A + B + C : 60 Kg

Shelf-life

CONSOL FLOOR 92 can be stored for 12 months if stored as recommend in unopened original containers.

TECHNICAL DATA

Coverage

Primer : **CONSOL FLOOR 162** = 0.3 – 0.5 kg/m²

Bonding Bridge: **CONSOL FLOOR 162** = 0.15 – 0.3 kg/m²

Mortar screed: **CONSOL FLOOR 92** = 2 kg/m² (layer thickness 10-80 mm)

Pot Life (30 °C)

| Temperature | Time |
|-------------------|----------|
| 10 ⁰ C | + 60 min |
| 20 ⁰ C | + 40 min |
| 30 ⁰ C | + 25 min |

Curing Time

Foot traffic: 8 hour Light traffic: 2 day Full Traffic: 5 day

Full Cure

5 Days

Hardness

Shore D hardness > 80

Strength

Pull of Strength >15 kg/cm²



INSTRUCTION FOR USE

Substrate Condition

Surfaces temperature should to +10⁰ C min./ +30⁰ C max. and substrate moisture < 4 % pbw moisture content. Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.

Surface Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from CONSOL. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. 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.

Mixing

Part A: part B: part C= 6.25 : 3.75 : 50

Mixing Equipment

CONSOL FLOOR 92 (part A + B) must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment. For **CONSOL FLOOR 92** (part A + B + C) mortars use a forced action mixer of rotating pan, paddle or tough type.

Mixing Time

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, the quartz sand or if required the Extender T must be mixed with part A and B for a further 2 minutes until a uniform mix has again been achieved. Over mixing must be avoided to minimize air entrapment.

Application

Prior to application, confirm substrate moisture content, r.h. and dew point.

For strongly absorbent substrates apply a primer coat. The primer has to be cured tack free before the bonding bridge is applied.

Primer: Make sure that a continuous, pore free film covers the substrate Apply **CONSOL FLOOR 162** by roller or squeegee.

Bonding bridge / impregnation: Make sure that a continuous, pore free film covers the substrate. Apply **CONSOL FLOOR 92**, roller or squeegee.

Mortar screed: Apply the mortar screed evenly on the tacky bonding bridge, using levelling boards and guide rails as necessary. After a short waiting time, compact and finish the mortar with a trowel or Teflon coated power float (usually 20 - 90 rpm). Power floats can only be used on mortar layers > 8 mm.

NOTES ON APPLICATION

Do not apply **CONSOL FLOOR 92** on substrates with rising moisture. Freshly applied CONSOL FLOOR 163 should be protected from damp, condensation and water for at least 24 hours. Avoid puddles on the surface with the primer. **CONSOL FLOOR 92** mortar screed is not suitable for frequent or permanent contact with water unless sealed. For exact colour matching, ensure the quartz sand in each area has the same colour (sand is a natural product and colour differences can occur). Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin. If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.