

EMACO T350SL

Internal/External Heavy Duty Floor Leveller

Description

EMACO T350SL is a two component, self-levelling mortar.

EMACO T350SL part 1 is a powder blend of cement, graded sands, and special modifiers.

EMACO T350SL part 2 is an acrylic polymer emulsion.

Application depth, 5mm to 25mm

Fields of Application

To resurface or repair worn or damaged concrete floors.

EMACO T350SL provides a smooth, wear-resistant surface suitable for a variety of applications such as:

- factory and warehouse floors
- loading bays
- car parks, garages and roadways
- balconies
- for inside and outside use

Features and Benefits

Aesthetics

- Smooth finish
- Non-dusting

Durable

- Tough and durable
- Excellent bond strength
- Good wearing properties
- Shrinkage compensated for large size repairs

Cost effective

- Easy and fast to apply
- Self-levelling - no trowelling is required
- Can be mixed and placed mechanically

Environmentally friendly

- Cement-based, contains no organic solvents.

Typical Properties ^(a)/ Technical Data

Pot life	20 minutes
Wet density	± 1.95 kg/dm ³
Liquid addition (Litres) per 25 kg bag of powder	5.0
Colour	Grey
Modulus of elasticity (28 days)	20,000 N/mm ²
Compressive strength	
1 day	10 N/mm ²
7 days	25 N/mm ²
28 days	30 N/mm ²
Flexural strength	
28 days	5.5 N/mm ²
Adhesive 28 days	> 2 N/mm ²
Shore D 7 days	70
Linear shrinkage	
28 days	- 0.070 %

(a) Typical values. All tests were carried out under temperature controlled conditions of 21°C.

Coverage per 25 kg bag

No waste factor included.
3.0 m² at 5 mm thickness
1.5 m² at 10 mm thickness
0.6 m² at 25 mm thickness

Application Procedure

Substrate Quality

Substrates to be treated must be completely clean, structurally sound and mechanically keyed. All substrate coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed.

Preparation of Substrate

Preferred methods of preparation include high pressure water-jetting, wet abrasive blasting, grit blasting and vacuum shot-blasting.

Do not use chemical cleaning methods such as acid etching or aggressive percussive methods such as scabbling, which may damage the substrate.

The prepared substrate should have a minimum pull-out strength of 1N/mm².



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Holes and cavities

Holes or cavities over 25 mm deep should be filled with suitable products from the EMACO T range, prior to the application of EMACO T350SL. Finish the repairs with a rough, textured surface to improve the adhesion of the topping. Allow sufficient time for the repairs to cure before applying EMACO T350SL.

Static cracks

Cracks of 1 mm width or more should be repaired prior to the application of EMACO T350SL.

Movement joints or live cracks

Existing movement joints or live cracks within the substrate must be carried through the EMACO T350SL. A movement joint should be created where non-concrete materials (tiles, resin based flooring or wood), meet EMACO T350SL. The joint can be filled with a flexible sealant after the application is complete.

Saw cut the edges of the repair to a minimum depth of 5mm to prevent feather edging.

Mixing

Mix in a clean drum, using a suitable mixing paddle in a slow speed drill (400-600 rpm).
For larger areas use a suitable mixer/ pump.

Place 5 litres of liquid (part 1) into a suitable mixing drum, add the powder (part 2) to the liquid as you mix and continue mixing for 3 minutes, to achieve a homogeneous and lump free mortar.

Application

Do not apply EMACO T350SL to frozen substrates or when the temperature is below 5°C or expected to fall below 5°C within 24 hours.

The application of EMACO T350SL is carried out in four stages:

1. Saturation/Priming of the substrate

The prepared concrete substrate should be saturated with clean water. This operation, which should be performed carefully, has the effect of displacing air from the substrate, which would otherwise cause pinholes to occur in the EMACO T350SL. Remove standing water before proceeding with the application.

2. Application of the bonding slurry

To ensure good adhesion apply EMACO T350SL, mixed as described above and brush firmly into the water saturated substrate using a stiff broom.

Soft brooms must not be used.

3. Application of the EMACO T350SL

Immediately after the bonding slurry has been placed, apply the EMACO T350SL using a space rake adjusted to the required thickness. It is essential to plan the work so that the EMACO T350SL is applied onto a wet bonding slurry and that a wet edge is maintained at all times.

4. Finishing

After the EMACO T350SL has been applied with the space rake it should be thoroughly rolled back-and-forth using a spiked roller. This has the effect of releasing entrapped air and ensures a smooth, level surface. It is usual for the rolling phase to be one mix unit behind the application by space rake so that the new mix is rolled evenly into the old. This ensures that the two mixes marry-in evenly.

A skid resistant finish can be achieved by broadcasting dry silica sand into the fresh EMACO T350SL, just prior to the moment the material starts to skin on the surface. After curing excess sand can be removed.

Curing

Under normal climatic conditions no special curing procedures are needed. EMACO T350SL should be ready for pedestrian traffic after 24 hours and fully operational after 72 hours.

During hot, dry and windy conditions (above 25°C and below 55% relative humidity) as soon as the surface of the EMACO T350SL has set dry, clean silica sand should be broadcast or polythene sheeting should be placed over the entire surface. This will protect it from rapid uncontrolled drying. The sand can be removed by broom after a minimum of 24 hours.

When temperatures are low (5-15°C) and humidity high (above 90%) the setting and curing times of EMACO T350SL will be extended. Under these conditions a longer curing period will be needed before opening to traffic.

Packaging

EMACO T350SL part 1 25 kg sack
EMACO T350SL part 2 5 litre bottle

Storage

Both components should be stored under cover, clear of the ground and stacked not more than 2 pallets or 6 sacks high. Protect the materials from all sources of moisture and frost (+5°C).



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Shelf Life

Rotate stock in order not to exceed the shelf life of 6 months for EMACO T350SL part 1 and 12 months for EMACO T350SL part 2.

Clean up and spillages

Uncured material may simply be removed with water.

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EMACO T350 SL BASF Construction Chemicals (UK) Ltd Version 3 – July 2007

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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