Product Information

Dolit ET-C

AU.EP.001 | 24/08/2023

PRODUCT GROUP

Synthetic resin concretes, levelling compounds

BINDER BASE

Epoxy resin

PROPERTIES / APPLICATION

Highly filled synthetic resin compound for the production of moulded parts and for reprofiling cementitious substrates in greater layer thicknesses.

- Liquid-tight.
- Highly chemically resistant.
- Low shrinkage.
- Quick commissioning.
- Thermally resistant up to approx. 80 °C.
- Solvent-free binder.

SYSTEM DESIGN

- When used for reprofiling cementitious substrates, apply a primer. We recommend the use of Dolit ET-P.
- Dolit ET-C Synthetic resin compound

PHYSICAL DATA

Physical property	DIN	ASTM	Value	Unit
Density	DIN EN ISO 1183-1	ASTM D 792	2.1	g/cm³
Compressive strength [1]		ASTM C 579	75	MPa
Tensile strength [1]		ASTM C 307	10	MPa
Adhesive strength to concrete/screed	DIN EN ISO 4624		>Intrinsic tensile strength concrete	MPa

PRECONDITIONS

The temperatures for the substrate, ambient air and Dolit materials must be between 10 °C and 30 °C during application. The optimum processing temperature is 20 °C. Higher and lower temperatures affect the working time and consistency of the composition. Consumption and application performance may change as a result.

During application, the substrate must be kept absolutely dry. No moisture (condensate, mist, etc.) may get onto the surfaces to be protected.

Distance to dew point has to be at least 3 K, at a relative humidity of above 70 % at least 5 K.

The construction site must be protected from draught and direct sunlight.

Line formwork for moulded parts with plastic material (PE) or treat with a suitable release agent.

CONCRETE / SCREED

Refer to DIN EN14879-1.

[1] Mean value, determined on annealed samples.

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The substrate must be pretreated to achieve sufficient adhesive tensile strength. It must be free from cement slurry, cement skin, loose and friable parts, structural defects and separating substances.

The residual moisture of cementitious substrates must not exceed 4 %.

The effect of water or water vapour pressure on the back of the coating/lining must be prevented.

DELIVERY FORM / BEST BEFORE DATE

Component	Item no.	Quantity	Package	Months
Dolit-ET-Solution	5235197020	16 kg	Hobbock	24
Dolit-ET-Solution	5235197001	25 kg	Hobbock	24
Dolit-ET-Hardener	5235198001	25 kg	Hobbock	24
Dolit-ET-Hardener	5235198085	8.8 kg	Drum	24
Dolit-Filler 30	5211215001	25 kg	Bag	24

- All components must be stored and transported in a dry and frost-free place.
- The minimum shelf life applies to a storage temperature of 20 °C. Higher temperatures shorten, lower temperatures extend the minimum shelf life.

Safety notice

- For handling, storage and transport, observe the relevant safety data sheets!

WORKING EQUIPMENT

NOTE! **The materials to be processed can have an aggressive effect on mixing and processing tools due to the solvents, acidic, alkaline or abrasive components they contain. Therefore, please use only suitable tools for mixing and processing.**

Metal smoothing trowel
Measuring cup
Scale
Mixing vessel
Drilling machine
Anchor stirrer
Mortar mixer
Formwork and formwork support material made of wood or sheet steel
Material for laying out the moulds (PE)
Screed gauge
Knocking board
Scoop
Aids for installation at the correct height

GISCODE

Product	GISCODE
Dolit ET-C Synthetic resin compound	RE90

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MIXING RATIO / CONSUMPTION

DOLIT ET-C SYNTHETIC RESIN COMPOUND

Component	kg/litre	Part by weight	kg / mix	Litres / batch
Dolit-ET-Solution	0.151	1.80	2.000	1.780
Dolit-ET-Hardener	0.083	1.00	1.110	1.110
Dolit-Filler 30	1.866	22.40	25.000	14.700
Total	**2.100**		**28.110**	

Volume per batch	≈ 13.4 l

MIXING / APPLICATION

MIXING SEQUENCE

- Measure or weigh liquid components and place in a mixing vessel.
- Mix carefully until a homogeneous mixture is formed.
- Measure or weigh solids individually.
- Solids are then added to the liquid mixture in portions.
- Mix carefully until a homogeneous, lump-free mixture is formed.

APPLICATION

Processing may only be started when the application requirements are met and can be maintained during the entire processing and curing.

Higher and lower temperatures affect the working time and consistency of the composition. Consumption, film thickness and application performance may change as a result.

All materials should have the same temperature during processing.

Scattered surfaces should be lightly sanded over after curing. In any case, the surface must be carefully cleaned of loose material before applying further coats.

Reprofiling

- When priming with Dolit ET-P, fresh-on-fresh application is possible.
- Scattering of Dolit ET-P is necessary if longer waiting times until application of Dolit ET-C Synthetic resin compound have to be taken into account or slipping away during application is to be prevented.
- Dolit ET-C Synthetic resin compound apply in strips ≈ 60-70 cm wide in the required layer thickness.
- Work without blowholes. Carefully compact. Avoid bumps, dents and trowel marks.

Moulded parts

- Dolit ET-C Synthetic resin compound into the mould or formwork without leaving any cavities.
- Carefully compact.
- If the moulded part cannot be produced in one operation, ensure that there is adhesion between the individual layers.

Do not use any smoothing aids.

POT LIFE

- The pot life depend on the temperature and are as follows at 20 °C.

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Dolit ET-C Synthetic resin compound
≈ 30 min

WAIT- / CURING TIME

The minimum waiting time before further processing and the maximum waiting time between working steps are at 20 °C.

Layer	Until further processing	Maximum waiting time
Dolit ET-C Synthetic resin compound	16 h (walk-in)	48 h

Dolit ET-C Synthetic resin compound is fully loadable mechanically and chemically after 7 days at 20 °C.

CLEANING

Tools that are soiled with uncured materials can be cleaned with Dolit-Universal-Cleaner. Clean only in well ventilated areas and observe safety measures.

SAFETY / DISPOSAL

- Ensure sufficient ventilation, especially when working in closed rooms, pits or containers.
- Observe fire and smoking ban.
- Observe safety data sheets, hazard statements and safety advice on the containers.
- Wear prescribed personal protective equipment. Avoid skin contact with the materials.
- Clean and care for hands with skin protection soap and ointment. Do not use solvents.
- Wear a dust mask during grinding work, e.g. repairs.
- Follow operating instructions according to §14 GefahrstoffV and Technical Rules for Hazardous Substances TRGS 507.
- Comply with the accident prevention regulations of the employers' liability insurance associations.
- Avoid direct contact of the materials with the flame, especially when welding, watch out for welding beads.
- Preferably consume residual quantities.
- Do not pour residues down the sink or into the dustbin.
- Collect residues for disposal separately in durable, sealable and labelled containers.

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