Technical datasheet

CONTOPP®

DUREMIT 60

Article n°: 20.304

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PROPERTIES

Function

- Production of coloured terrazzo-screeds with high-strength performance
- Optimised dispersion of colour pigments to obtain even and homogenous texture
- Up-speeded early-strength and drying for polishing surfaces after 5 - 7 days
- Reduction of the screed thickness to a minimum of 35 mm on insulation or polythene sheet
- Contains tracer for a subsequent half-quantitative analysis in sand/cement screeds

Application area

- For producing highly stressed, sand/cement wearing screeds.
- For producing wearing screeds with hard granular surfacing.
- For producing screeds on underfloor heating.

TECHNICAL DATA

Data

Colour:	yellow
Colour proof-pigment:	yellow fluorescing
Form:	liquid
Density (20 °C):	1.17 ± 0.01 g/ml
Processing temperature:	above + 5 °C
Shelf life	ca. 12 months – protect from frost and direct sunlight
Supply form:	PE-HD-can: 20 kg netto
	Container: 1,100 kg netto

Mix

1 : 5 mix by weight	Standard	CONTOPP®	Unit
Cement	63	63	kg
Sand 0/8 [1]	310	310	kg
Duremit 60	-	0.6[2]	ltr.
w/c-ratio	0.70 - 0.80	0.40 – 0.50	

Strength

Criteria	Standard	CONTOPP®	Unit
Flexural strength (28 days)	F5	F7	N/mm²
Comp. strength (28 days)	C25	C40	N/mm²
BRE test (impact resistance)	Category B	Category A	

Floor Finish

Criteria	Standard	CONTOPP®	Unit
Foot traffic	72	24	hours

[1] according to EN 13139

[2] corresponds to 1.0 V-% of the cement weight

This ideal screed mortar can only be manufactured whilst adhering to the processing information listed below. The details refer to 50 mm screed thickness, normal climatic conditions at + 20 °C and a relative humidity of 65 %. Using sand with maximum grainsize < 8mm strength can be lower.

PROCESSING INFORMATION

Basic materials

- CEM I or CEM II following EN 197
- Aggregates following EN 13139.

Recipe

- Stick to the dosage (0.5 – 1.5 V-% of cement weight); ingredients should be added to the moistened mix. W/c-ratio < 0.50
- Mix for at least 2 minutes after adding all the components

Construction site conditions

- Protect from draughts and direct sunlight during setting.
- Remove surplus moisture by means of draught-free ventilation (natural ventilation).
- Nature of construction and site preparation following general codes of practice.

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SPECIAL INFORMATION

Minimum screed thickness [1]

Flexural strength	Bonded	Unbonded	Floating	On underfloor heating [2] [3]
7 N/mm²	Standard: 20 mm Heavy duty: 20 mm	Standard: 30 mm Heavy duty: 35 mm	Standard: 35 mm Heavy duty: 40 mm	Standard: 35 mm Heavy duty: 40 mm

[1] Working load: Standard ≤ 2.0 kN/m²; Heavy duty: ≤ 3.5 kN/m²
[2] In the case of screeds on underfloor heating thickness above the pipes
[3] No steel reinforcement required

Screed on underfloor heating - start-up heating protocol [1] [2]

Heating process after laying	19th day	20th day	21th day	22th day	23th day	24th day	25th day	26th day	27th day	28th day
Temperature	25°C	35°C	45°C	55°C	55°C	55°C	55°C	45°C	35°C	25°C

[1] It can be useful to lengthen the heating procedure for screed thicknesses of > 50 mm above the pipes to achieve sufficient drying.
[2] The residual moisture content must be tested prior to the application of the final floor finish (CM-method).

Measuring residual moisture content

- Prior to laying the top flooring, the residual moisture of the screed must be measured by the person laying the floor.

GENERAL INFORMATION

Health & Safety

- Always observe general work hygiene when using our products.
- CONTOPP® Duremit systems are solvent-free and chloride-free.
- Our products do not deteriorate when stored properly (see data). Therefore, the stability and reactivity are not affected by storage.
- You can find out more information on handling CONTOPP® Duremit systems from our safety data sheets.

Standards and testing regulations

- EN 13139: Aggregates for mortar
- EN 197: Cement – Part 1: Composition, specifications and conformity criteria for

Comments

The raw materials we process and the products we produce are subject to strict factory inspections. Do not use products from other manufacturers when using this product. It is stressed that our products and the procedure must be tested for suitability for the expected construction site conditions. The quality of screeds is essentially influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved screeding technology. Upon the publication all other previous copies shall become invalid.

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