

CONTOPP®

DUREMIT CARBO

Adolf-Oesterheld-Str.1
D-97337 Dettelbach
Tel: +49(0)9324/9199-0
info@knopp-chemie.com
knopp-chemie.com

PROPERTIES

PRODUCT DESCRIPTION

- The defined screed recipe with Duremit CARBO requires up to 33% less cement than the comparison recipe. This can reduce the global warming potential of the entire screed system.
- Conservation of resources through high water savings
- Strength class CT-C20-F4 with a mixing ratio of 1:9
- Sharply reduced shrinkage stresses
- Use of clinker-efficient CEM II/C cements approved
- EMICODE EC¹_{plus}

APPLICATION AREA

- For producing highly stressed, sand/cement wearing screeds in accordance with BS 8204.
- For producing wearing screeds with hard granular surfacing.
- For producing screeds on underfloor heating.
- For damp or outdoor areas.



TECHNICAL DATA

CHARACTERISTICS

Colour:	green
Form:	liquid
Density (at 20 °C):	1.16 ± 0.02 g/ml
Processing temperature:	above + 5 °C
Shelf life:	Approx. 12 months – protect from frost and direct sunlight
Supply form:	Disposable container: PE-HD-can: 20 kg total Reusable container: Container: 1100 kg total

MIXING MODEL CT-C20-F4

1 : 5 mix by weight	Standard	CONTOPP®	Unit
Cement	50	37.5	kg
Sand ¹	320	330	kg
DUREMIT CARBO	–	0.5 ²	ltr.
Total water content	Approx. 35	Approx. 22	ltr.
Foot traffic	72	36	hours

MIXING MODEL CT-C20-F4

Criteria	Standard	CONTOPP®	Unit
Cement	63	37.5	kg
Sand ¹	310	330	kg
DUREMIT CARBO	–	0.8 ³	ltr.
Total water content	Approx. 41	Approx. 18	ltr.
Foot traffic	72	36	hours

¹ according to BS EN 13139

² corresponds to 14 V-% of the cement weight

³ corresponds to 2.2 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 50mm screed thickness without under floor heating (UFH) and 65mm screed thickness with under floor heating, normal climatic conditions at + 20°C and a relative humidity of 65%. A lower grainsize of sand of less than 8mm can lead to lower strength development. However, when the mixing ratios of the standard mixture and the CONTOPP® mixture are varied, the quality of the screed mortar enhanced with CONTOPP® will generally be higher than that of the standard mixture.

PROCESSING INFORMATION

BASIC MATERIALS

- CEM I or CEM II/A, B or C following EN 197-1
- Aggregates following EN 12620 – Sand 0/8 – sieveline A/B
- CONTOPP® DUREMIT CARBO is compatible with all other additives in the CONTOPP® accelerator series. In this case, the W/C values specified there must be taken into account as maximum values.

RECIPE

- Stick to the dosage (1.4 – 2.2 V-% of cement weight); ingredients should be added to the moistened mix.
- W/C-ratio ≤ 0.60
- Mix for at least 2 minutes after adding all the components

CONSTRUCTION CLIMATE CONDITIONS

- Protect from draughts and direct sunlight during setting.
- Remove excess moisture through draft-free cross-ventilation (4 times a day for 20–30 minutes).
- Nature of construction and site preparation following general codes of practice.

GENERAL INFORMATION

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.
- Whilst adhering to all the manufacturer's details, BS 8203 recommends laying the screed under 75 % relative humidity.
- When combined with CONTOPP® accelerator systems, the manufacturer's instructions for measuring residual screed moisture apply.

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. Therefore, stability and reactivity are not affected by storage.
- You can find out more information on handling CONTOPP® Duremit from our safety data sheets.

STANDARDS AND TESTING REGULATIONS

- BS 8204: In-situ floorings – bases and screeds
- BS 8000: Code of practice for cement/sand floor screeds and concrete floor toppings
- EN 197: Cement – Part 1: Composition, specifications and conformity criteria for common cements

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. Since we have no control over site conditions or construction practices, no legal liability can be derived from this technical data sheet. Upon the publication all other previous copies shall become invalid.

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