Article n°: **19.101**

TECHNICAL DATA SHEET

CONTOPP®
DSR 2

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PROPERTIES

PRODUCT DESCRIPTION

- Significant reduction in drying shrinkage of cement screeds
- Reduces the surface tension of the mixing water to minimize the suction forces on the capillary walls at the same time, thereby reducing the resulting shrinkage stress.
- No change in compressive and flexural bending strength

APPLICATION AREA

- For producing semi-dry sand/cement screeds and cement flowing screeds with reduced drying shrinkage.
- Proven shrinkage class SW2 (0.2mm/m – 0.5mm/m = shrinkage reduced) according to DIN 18560-1. Test of shrinkage according to DIN EN 13892-9 over 90 days in combination with other additives from the CONTOPP® series is available.
- Expressly recommended when manufacturing bonded screeds and terrazzo screeds.

TECHNICAL DATA

DATA

Colour:	colorless, transparent
Form:	liquid
Density (at 20 °C):	0.92 ± 0.02 g/cm³
Processing temperature:	above + 5 °C
Shelf life:	Approx. 12 months – protect from frost and direct sunlight
Supply form:	**Disposable container:** PE-HD-can: 18 kg total **Reusable container:** Container: 920 kg total

MIXING MODEL

Recipe per mix	Standard	CONTOPP®	Unit
Cement	63	63	kg
Sand [1]	310	310	kg
DSR 2	-	1.3 [2]	ltr.

STRENGTH

Criteria	Standard	CONTOPP®	Unit
Shrinkage (90 days)	Approx. 800	Approx. 350	µm/m

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.

[1] according to BS EN 13139

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

PROCESSING INFORMATION

BASIC MATERIALS

- CEM I or CEM II (A-type recommended) following BS EN 197-1
- Aggregates following BS EN 13139

RECIPE

- Recommended dosage range 1.0 – 3.0% by vol. in relation to cement weight
- The ingredients should be added to the moistened mix.
- 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

SAFETY

- Always observe general work hygiene when using our products.
- CONTOPP® DSR 2 is solvent-free, chloride-free and safe in terms of organic architecture.
- CONTOPP® DSR 2 does not deteriorate when stored properly. Therefore, stability and reactivity are not affected by storage for up to 12 months.
- Find out more information on handling CONTOPP® DSR 2 from our safety data sheets.

STANDARDS AND TESTING REGULATIONS

- BS EN 13139: Aggregates for mortar
- BS EN 197: Cement – Part 1: Composition, specifications and conformity criteria for common cements
- DIN 18560: Screeds used in construction.

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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