

deka

High-performance screed additive
to extremely increase strength



DESCRIPTION

deka is a liquid additive for the production of semi-dry to earth-moist cementitious screeds. Its effect ensures an extreme increase in screed strength. An integrated processing aid makes it easier to mix, pump, spread, level and smooth the screed.

KEY FEATURES

- Increased strength
- No fibre or steel reinforcement needed
- No curing under PE needed
- Shortened screed heating phase
- Great workability and pumpability

AREAS OF APPLICATION

- For producing bonded, unbonded and floating screeds
- For producing screeds on underfloor heating
- Suitable for wet and outside areas
- Suitable for all floor coverings
- Can be used as a wearing surface

TECHNICAL PROFILE

Working time	90 minutes
Walkable	after 24 hours
Light traffic	after 3 days
Can be heated	after 3 days
Strength class	C30-F5 to C40-F6
BRE category	A

*Typical properties achieved under construction site conditions at 5-30°C and 40-60% relative humidity with screed thickness of ≤ 60 mm without underfloor heating and ≤ 70 mm screed thickness with underfloor heating.

MIN. SCREED THICKNESS (at 2 kN/m² surface load)

Bonded	25 mm
Unbonded	35 mm
Floating	35 mm
On underfloor heating	35 mm

*Further information regarding thickness at different surface load cases and detailed application instructions are available upon request.

MIX DESIGN: SCREED PUMP (200 litres net)

Strength class	C30-F5	C40-F6
Sand amount	310 kg	310 kg
Cement amount	50 kg	62.5 kg
Dosage	300 ml	600 ml
W/C ratio	0.5 - 0.7	0.5 - 0.7

MIX DESIGN: CUBIC METRE

Strength class	C30-F5	C40-F6
Sand amount	1,550 kg	1,550 kg
Cement amount	250 kg	312.5 kg
Dosage	1,500 ml	3,000 ml
W/C ratio	0.5 - 0.7	0.5 - 0.7

SCREED AND UNDERFLOOR HEATING PHASE

Day	3-5	6-10	11-13	14 - readiness for covering
Temperature	25°C	45°C	35°C	25°C

MIXING INSTRUCTIONS

1. Fill the screed machine about half full with sand and the total amount of cement.
2. Add **deka** to the first mixing water (usually 5-10 litres) and then fill the machine completely.
3. In the meantime, gradually add the required amount of water until a semi-dry or earth-moist consistency is achieved.
4. Mix at least 2 minutes.

BASIC MATERIALS, STANDARDS AND TESTING REGULATIONS

- CEM I or CEM II (A-L, A-LL, B-L, B-LL) following BS EN 197-1
- Aggregates following BS EN 12620
- Preliminary testing and suitability verification required

SAFETY AND CERTIFICATES

- CE certification
- Always observe general work hygiene when using our products.
- Further information on handling **deka** can be found in our safety data sheets.

RESIDUAL MOISTURE TEST

- Before laying the floor covering, the residual moisture content of the screed must be measured by the floor layer.
- BS 8203 recommends a maximum relative humidity of 75% before laying floor coverings.

CONSTRUCTION SITE CONDITIONS

- The screed must be protected from drying out too quickly due to draughts, direct sunlight and low humidity.
- The screed must be protected from frost and water during the entire drying time.
- At temperatures below + 5°C, the setting process of the binder (cement) is delayed or completely interrupted.

TECHNICAL DATA

- Form: liquid
- Colour: brown
- Density: $1.14 \pm 0.02 \text{ kg/dm}^3$
- Supply form: 10 litres, 20 litres, 1,000 kg
- Storage: store protected from frost, heat and direct sunlight
- Shelf life: at least 12 months (in sealed containers)

Bondera Chemicals GmbH products are sold under warranty against defects in material and manufacturing and are subject to our Terms and Conditions, which are available upon request.

The technical data sheet has been prepared by and for Bondera Chemicals GmbH. Please contact the technical team for further information.

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