

# DURASCREED

## OVERVIEW

TEKCEM DURASCREED is a technologically advanced screed hardening additive, producing a Cat A, C40, F7 Screed, compared with a Cat B, C25, F5 standard sand and cement screed.

Therefore, thinner screed thicknesses can be achieved without compromising compressive or flexural strength.

## TECHNICAL DATA

Colour	Brown
Form	Liquid
Density (20°C)	1.16 ± 0.01 g/ml
Processing Temp	Above +5°C
Supply Form	1.3kg container - 4no. per box

## MIX

1:5 mix by weight	Standard	DURASCREED	Unit
Cement	50	50	kg
Sand 0/4 1"	250	250	kg
TEKCEM DURASCREED	-	1.3	kg
Water to cement ratio	0.70 - 0.80	0.40 - 0.50	

## FLOOR FINISH

Criteria	Standard	DURASCREED	Unit
Foot traffic	72	24	hours

## PROPERTIES

- 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.

## PROPERTIES

- Allows the production of heavy-duty screeds with compressive strength up to 60 N/mm<sup>2</sup>.
- Facilitates a reduction in the screed thickness to a minimum of 35mm on insulation or polythene sheet.
- Offers favourable processing and smoothing properties thanks to plasticising components.

## STRENGTH

Criteria	Standard	DURASCREED	Unit
Flexural strength (28 days)	F5	F7	N/mm <sup>2</sup>
Comp. strength (28 days)	C25	C40	N/mm <sup>2</sup>
BRE test (impact resistance)	Cat B	Cat A	

## BASIC MATERIALS

- OPC blends follow BS EN 197
- Aggregates follow BS EN 12620

## DOSAGE

- Closely adhere to dosage (one 1.3kg container of DURASCREED per 50kg of OPC); ingredients should be added to the moistened mix. W/C-ratio 0.40 - 0.50
- Mix for at least 2 minutes after adding all components

## 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 construction site preparation following BS 8204-1 and 8000

## MINIMUM SCREED THICKNESS <sup>1\*</sup>

Flexural strength	Bonded	Unbonded	Floating	On underfloor heating <sup>2*</sup>
7 N/mm <sup>2</sup>	Standard: 20mm Heavy duty: 20mm	Standard: 35mm Heavy duty: 35mm	Standard: 35mm Heavy duty: 50mm	Standard: 35mm Heavy duty: 50mm

<sup>1\*</sup> Working load: Standard  $\leq 2.0$  kN/m<sup>2</sup>; Heavy duty:  $\leq 3.5$  kN/m<sup>2</sup>

<sup>2\*</sup> In the case of screeds on underfloor heating thickness above the pipes.

## SCREED ON UNDERFLOOR HEATING START-UP HEATING PROTOCOL <sup>3\* 4\*</sup>

Heating process after laying	19 <sup>th</sup> day	20 <sup>th</sup> day	21 <sup>st</sup> day	22 <sup>nd</sup> day	23 <sup>rd</sup> day	24 <sup>th</sup> day	25 <sup>th</sup> day	26 <sup>th</sup> day	27 <sup>th</sup> day	28 <sup>th</sup> day
UFH water temperature	25°C	35°C	45°C	55°C	55°C	55°C	55°C	45°C	35°C	25°C

<sup>3\*</sup> It can be useful to lengthen the heating procedure for screed thicknesses of  $> 50$  mm above the pipes to achieve sufficient drying

<sup>4\*</sup> During the heating phase do not carry out any finishing work and do not cover or block the screed surface

## MEASURING RESIDUAL MOISTURE CONTENT

- Prior to laying the top flooring, the residual moisture of the screed must be measured by the floor installer
- Whilst adhering to all the manufacturer's details, BS 8203 recommends laying the screed under 75% relative humidity

## HEALTH & SAFETY

Always observe general work hygiene when using our products. TEKCEM DURASCREED is solvent-free and chloride-free. This product is not classified under the Chemicals Hazard Information and Packaging for Supply Regulations. A Material Safety Data Sheet relating to this product can be obtained from TEKCEM LTD. Please dispose of packaging and waste responsibly.

## STORAGE & SHELF LIFE

Twelve months in unopened containers, stored under frost-free, cool and dry conditions.

## STANDARDS & TESTING

- BS 8203: Installation of resilient floor coverings
- BS 8204: In-situ floorings – bases and screeds
- BS 8000: Code of practice for cement/sand floor screeds and concrete floor toppings
- BS EN 13139: Aggregates for mortar
- BS 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.