KREVO Level Cem

High-duty polymer-modified cementitious floor levelling compound | Self-smoothing | 4-12 mm

PRODUCT DESCRIPTION

KREVO Level Cem is a dry, grey, cementitious levelling compound formulated with selected cements, graded aggregates, polymers and flow agents. When mixed with clean water, it forms a free-flowing, self-smoothing material for levelling and resurfacing sound internal concrete floors. It may be placed manually or using a suitable continuous-mixer pumping system.

ADVANTAGES

- Free-flowing, self-smoothing cementitious floor levelling compound.
- Rapid-hardening formulation with a specified traffic time of 12 hours at +25 °C.
- Durable floor finish suitable for forklift traffic and light industrial applications.
- Designed for manual placement or suitable continuous-mixer pump application.
- Low-VOC and formaldehyde-free formulation are product qualification criteria.

TYPICAL USES

Forklift-trafficked internal floors • Light industrial areas • Car parks and garages • Walkways and high-bay warehouses • Workshops • Levelling under vinyl, tiles, carpet and compatible floor finishes.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Material type	Polymer-modified cementitious floor levelling powder
Physical form	Dry grey powder; mixed with water to self-smoothing consistency
Principal constituents	Selected cements, graded aggregate, polymers and flow agents
Placement	Hand application or suitable continuous-mixer pump
Specified thickness	4-12 mm per application
Mixing water	4.7-5.2 L clean potable water per 25 kg bag
Theoretical mixed yield	Approximately 18 L per 40 kg bag
Pack / storage life	40 kg bags; 12 months in sealed biodegradable bags

TECHNICAL PERFORMANCE SPECIFICATION | 28 days

PROPERTY / TEST METHOD	SPECIFIED VALUE
Compressive strength | 28 days	35 MPa (35 N/mm^2)
BRE impact resistance | BS 8204-1:1987	Class A at 28 days (highest rating)
VOC — levelling compound / primer	< 10 g/L each — specified criterion
Fire-performance design criteria	Class 0 (UK Approved Document B); BS 476-7 Class 1

Application & System Data

KREVO Level Cem | Application limits, priming, substrate preparation and system build-up

APPLICATION PROPERTIES

PROPERTY	SPECIFICATION	REFERENCE CONDITION	REMARKS
Working time	20 minutes	at +25 °C	Do not add water later
Traffic time	12 hours	at +25 °C	Protect during curing
Temperature	+5 to +35 °C	Mixed material ≤ +30 °C	Air ≥ +10 °C at placement

Working and traffic times refer to the stated temperatures and vary with site conditions, mixing water and installed layer thickness. Do not retemper the mixed compound.

TYPICAL SYSTEM BUILD-UP

LAYER	MATERIAL / METHOD
1 | Substrate	Sound internal concrete, clean and free from bond-inhibiting contaminants
2 | Preparation	Mechanically abrade as needed; repair defects and vacuum-clean
3 | Primer	Apply KREVO Prime EP
4 | Levelling layer	KREVO Level Cem placed at 4-12 mm and spiked-rolled
5 | Curing / finish	Cover with polythene for 7 days; protective coating if required

SUBSTRATE PREPARATION

Concrete must be sound and free from oil, grease, paint, curing residues, surface laitance, dust and loose material. New concrete should normally be at least 21 days old with moisture content below 5%. On existing floors, remove deep-seated contamination by mechanical grinding, scabbling or blasting. Repair defects using a suitable compatible cementitious repair mortar, and vacuum-clean the prepared surface.

PRIMING & MOISTURE CONTROL

Use a compatible, approved primer for cementitious floor levelling compounds. Apply evenly to the clean concrete at approximately 8-10 m^2/L or until absorbed. At +20 °C, the indicated primer drying period is 40-60 minutes; place the levelling compound while the primer is tacky. Highly porous substrates may need a second coat after the first dries. Do not allow dust to settle on the primer.

PARAMETER	APPLICATION REQUIREMENT
New concrete	Normally 21 days minimum; moisture content below 5%.
Primer application	8-10 m^2/L; tacky after approx. 40-60 min at +20 °C.
Packaging and shelf life	40 kg bag; 12 months (sealed biodegradable)

The indicated theoretical yield is approximately 18 L of mixed KREVO Level Cem per 40 kg bag. Practical yield depends on substrate profile, wastage, mixing and placement conditions. Check the substrate, ambient and product temperatures before mixing.

INSTALLATION READINESS

For application, the substrate temperature should be at least +5 °C and air temperature maintained at +10 °C or above. Protect against freezing for at least 48 hours after placement. Apply only to internal floors, away from direct sunlight, and within the specified +5 °C to +35 °C application range.

Installation & Product Support

KREVO Level Cem | Mixing, placing, curing, limitations and international contacts

MIXING PROCEDURE

- Mix whole 40 kg bags only; do not part-mix or add further water after mixing.
- Measure 6.5-7.5 L of clean potable water into a suitable mixing vessel.
- Add the powder to the water. Mix using a suitable 1 kW drill at 400-500 rpm for 3-5 minutes.
- Mix until homogeneous; keep water preferably below +20 °C and mixed mortar below +30 °C.

PLACEMENT, LEVELLING & CURING

- Pour the mixed material onto the prepared, appropriately primed concrete while still workable.
- Spread using a suitable trowel at an intended thickness of 4-12 mm and allow the compound to self-smooth.
- Pass a spiked roller over fresh material to release entrapped air; maintain a continuous laying sequence.
- Cover the freshly hardened surface fully with polythene sheet for 3 days as specified for curing.

LIMITATIONS & SITE CONTROL

- Carry existing structural and movement joints through the new levelling layer.
- Protect material from freezing for 48 hours; do not work in direct sunlight or on exposed external floors.
- Do not add more water to extend working time; avoid use outside the specified temperature range.
- Where exposure to regular water immersion or aggressive chemicals is expected, provide a compatible approved protective floor coating.
- Clean tools with water immediately after use; hardened material requires mechanical removal.

HEALTH, SAFETY & ENVIRONMENT

For professional industrial use by trained personnel. Read the current Safety Data Sheet before use. Wet cementitious material can irritate or burn skin and eyes. Wear suitable gloves, eye protection, protective clothing and dust protection for dry powder. Control dust, wash exposed skin promptly and prevent uncured slurry or wash water from entering drains.

QUALITY & PRODUCT INFORMATION

Performance depends on the formulation, verified material characteristics, proper water dosage, substrate soundness, preparation, priming and curing. Confirm product specifications, available packaging, any fire/VOC/environmental classifications and batch conformity with current KREVO technical and quality documentation before formal approval.

KREVO | GLOBAL CONTACTS

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