



## XL500 Deep Flex Leveller

Fibre Reinforced Flexible Self Levelling Compound  
2-50mm, 20kg

**2-50mm** / **30 mins** / **3-4 hours**  
**Bed Thickness** / **Open Time** / **Foot Traffic**

- Highly Flexible / Fibre Reinforced
- Non Shrink
- Protein / Casein Free
- Free Flowing / Pumpable
- Underfloor Heating
- Concrete / Screeds
- Timber Floors / Chipboard
- Interior / Exterior

### DESCRIPTION

ROCATEX XL500 Deep Flex Leveller is a free flowing, fibre reinforced, flexible self levelling smoothing screed, blended from a mixture of high quality raw materials.

ROCATEX XL500 Deep Flex Leveller can be applied in thicknesses from 2-50mm in a single pour. It provides an economic means of levelling and renovating existing floors, prior to the installation of floor coverings such as ceramic tiles, natural stone, timber or soft floor coverings.

It is particularly effective for encasing underfloor heating systems where its thermal transfer properties enhance the heating application. ROCATEX XL500 is suitable for use in domestic, commercial and industrial environments.

Suitable for use on exterior concrete surfaces such as balconies, patios and walkways prior to the application of tiles. It can also be used for domestic garage floors prior to covering with a suitable surface coating. Additionally it may be used for patch repairs on rough concrete, domestic driveways and paths that are subject to foot and light rubber wheeled traffic. Do not apply if temperatures are likely to drop below freezing within 7 days of application. Ensure external floor temperature is above 5°C and that freshly applied levelling compound should be protected from rain, frost, high temperatures and conditions causing rapid drying. All direct-to-earth subfloors must have either an effective integral damp-proof membrane or alternatively a surface damp-proof membrane applied.

### SURFACE PREPARATION

All surfaces must be clean, firm, dry, free from all loose matter including dust, dirt, oil, grease, laitance and any other contaminants that may affect adhesion. All substrates should be prepared to provide a rigid and secure base without deflection and suitable to support the intended weight. New timber should be given time to find equilibrium with its surroundings.

The following information provides further details for preparing various common substrates. Unless stated otherwise, any reference to the term "diluted" means 1 part primer mixed with 1 part clean water.

**Anhydrite Screeds** - The substrate must not leach moisture. Anhydrite screeds must not have a moisture content greater than 0.5% or 75% relative humidity (RH). This can easily be tested by taking moisture readings across the whole surface. It is essential that surface laitance is removed in accordance with the screed manufacturer's recommendations, followed by vacuum cleaning to remove any loose material, then apply 2-4 neat coats of ROCATEX Acrylic Primer or 2 diluted coats of ROCATEX Ultimate Grip Primer.

## ROCATEX

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**Concrete Screeds** - Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before levelling can commence is approximately 6 weeks.

**Power Floated Concrete** - Once cured, power floated concrete should be mechanically abraded (scabbled or shot blasted) to remove any curing agents and open up the surface, followed by vacuum cleaning to remove any loose material, then apply 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

**Sand & Cement Screeds** - Prime with 2 diluted coats of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer. Substrate curing before levelling can commence is approximately 3 weeks.

**Plywood** - Must be a minimum thickness of 15mm, exterior grade, screwed down at 300mm centres and all joints must be supported. Prime the surface with 1 diluted coat of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

**Tongue & Groove Boards/Floorboards** - Must be dry, rigid and securely fixed and screwed to joists at every 300mm. Prime the surface with 1 diluted coat of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

**Chipboard** - Must be a minimum thickness of 18mm screwed down at 300mm centres and all joints must be supported. Apply 1 neat coat of ROCATEX Acrylic Primer or ROCATEX Ultimate Grip Primer to all exposed edges and joints and then apply either 1 neat coat of ROCATEX Ultimate Grip Primer or a slurry coat to the surface: 1 part cement adhesive powder to 1 part ROCATEX Acrylic Primer, apply a thin coat with a brush and allow to dry.

**Cement Based Tile Backer Boards** - Prime the surface with 1 diluted coat of ROCATEX Acrylic Primer or 1 diluted coat of ROCATEX Ultimate Grip Primer.

**Existing Tiles & Other Non-Porous Substrates** - Apply either 1 neat coat of ROCATEX Ultimate Grip Primer and allow to dry or a slurry coat: 1 part cement adhesive powder to 1 part ROCATEX Acrylic Primer, apply a thin coat with a brush and allow to dry.

**Flooring Grade Asphalt** - Ensure surface is in good condition and there are no signs of debonding and/or hollowness. Apply 1 neat coat of ROCATEX Acrylic Primer or 1 neat coat of ROCATEX Ultimate Grip Primer and allow to dry. N.B. No single pour should be deeper than 6mm.

**Epoxy Damp Proof Membranes** - Apply 1 neat coat of ROCATEX Ultimate Grip Primer and allow to dry.

**Underfloor Heating Systems** - Existing underfloor heating must be switched off at least 3 days prior to applying ROCATEX XL500 to allow the substrate to cool. Once application has been completed allow 1 week before turning the heating system back on. Start with a low temperature and gradually increase at 5°C per day.

**Electric Underfloor Heating** - When encasing new electric underfloor heating, the system must be turned off. Allow 1 week before turning the heating system back on. Start with a low temperature and gradually increase at 5°C per day.

**Heated Screeds** - Prior to applying ROCATEX XL500, underfloor heated screeds should be commissioned in line with the heating system/screed guidelines. The heating system must be switched off at least 3 days prior to application to allow the substrate to cool. Once application has been completed allow 1 week before turning the heating system back on. Start with a low temperature and gradually increase at 5°C per day.

## MIXING

Mix 20kg of ROCATEX XL500 in a clean mixing vessel with 4 litres of cold clean tap water using a slow speed mixing drill with whisk attachment. Mix for a minimum of 2 minutes to ensure that all ingredients are dispersed thoroughly throughout the whole mix and there are no air bubbles.

## APPLICATION

Once mixed, the material is immediately ready for use and has a workability time of approximately 30 minutes. If the mix stiffens before it has been spread, it must be discarded. Do not add extra water.

The mixed material is poured onto the prepared subfloor and spread with a smooth edge trowel to the required thickness in one operation. Alternatively the use of a spiked roller will ensure a smooth even finish that will not require any further attention prior to the floor coverings being applied.

When pumping ROCATEX XL500 check the material flow regularly to ensure the correct consistency of material is being achieved.

The minimum temperature at which the product should be laid is 5°C with a maximum of 25°C. Air and floor slab temperatures should exceed 5°C for one week after application. Setting and hardening times will vary depending on temperature and ventilation. Setting and hardening times will be shortened at high temperatures and extended at low temperatures. Adequate ventilation is essential during the drying process but draughts must be eliminated to avoid uneven drying patterns.

## COVERAGE

For every 1mm thickness 1.7kg of dry powder per square metre will be required, i.e. 1m<sup>2</sup> at 10mm thickness will require 17kg of dry powder.

## STORAGE

Store unopened, clear of the ground in a cool, dry, frost free environment.

## TECHNICAL DATA

Conformity:	Conforms to the requirements of BS EN 13813 CT C25 F7
Application temperature:	6°C to 25°C
Bed thickness:	2-50mm
Mixing ratio:	4 litres of water to 20kg of powder
Open time:	30 mins at 20°C
Foot traffic:	3-4 hours at 20°C
Pump application:	Yes
Flow ring values:	235-230mm (65mm Ø, 40mm High Flow Ring)
Protein free:	Yes
Colour:	Grey
Shelf life:	12 months in cool dry area
Size:	20kg

## HEALTH & SAFETY INSTRUCTIONS



Health & safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before re-use. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

For further information, please request the Material Safety Data Sheet for this product.

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## DECLARED PERFORMANCE

<b>CE</b>		
Rocatex Ltd, Units 3+4 Camwal Park, Camwal Road, Harrogate, HG1 4PT, UK 13 DoP No. 005 EN 12004		
Essential Characteristics	Performance	Harmonised Technical Specification
Reaction to fire (class)	A1	
Release of corrosive substances (declared)	CT	
Water permeability (declared)	NPD	
Water vapour permeability (declared)	NPD	
Compressive strength (threshold)	C25	
Flexural strength (threshold)	F7	EN 13813:2002
Wear resistance (threshold)	NR	
Sound insulation (declared)	NPD	
Sound absorption (declared)	NPD	
Thermal resistance (declared)	NPD	
Chemical resistance (declared)	NPD	