

VERSION: 01

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LARSEN

TILING

TECHNICAL DATA SHEET

FIBERFLEX™ Ultimate Rapid Set+

HIGHLY DEFORMABLE

GROUT AFTER 3 HOURS

BS EN 12004 TYPE C2FS2

WHITE AND GREY

Larsen FIBERFLEX™ Professional Ultimate Rapid Set is a specially formulated, highly flexible, S2 rated, fast setting, cement based adhesive. It is suitable for beds of 3 – 12mm, interior, exterior, floor and wall applications. FIBERFLEX™ Professional Ultimate Rapid Set is suitable for fixing almost all types of tiles and is recommended for fixing porcelain, natural stone and large format tiles. It is suitable for use on all common substrates and is particularly recommended for use on more difficult substrates including tongue & groove floorboards and green screeds. As well as the high flexibility, FIBERFLEX™ Professional Ultimate Rapid Set gives an exceptionally high bond strength making it ideal for use in high traffic areas including shopping centres, schools and hospitals.



For further information, consult our Technical Department.

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TECHNICAL DATA SHEET

PRODUCT INFORMATION

FORM	Powder
COLOUR	White or Grey
HAZARD INFORMATION	IRRITANT – Consult Safety Datasheet before use
CLEANING	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set
PACKAGING	20 kg multiwall, sealed paper sacks
STORAGE INSTRUCTIONS	Store in sealed containers in dry conditions, protected from extremes of temperature
SHELF LIFE	6 months in unopened manufacturer's packaging

APPLICATION INFORMATION

MIXED PROPORTIONS	Mix 20 kg powder with approx. 4.L water
POT LIFE	Approx. 45 minutes @20°C
OPEN TIME	>10 minutes @ 20°C
APPLICATION TEMPERATURE	+5°C to +30°C
BED THICKNESS	3- 6mm (up to 12mm in small isolated areas)
TIME TO TRAFFIC	Grout after 3 hours. Light Foot Traffic after 3 hours. Full Traffic after 6 hours (depending on site conditions)
COVERAGE	Approx 4 kg/m2 @ 3 mm bed

PERFORMANCE INFORMATION

TENSILE ADHESION STRENGTH	≥1 MPa under all test conditions
OPEN TIME	≥10 min
SLIP	≤0.5 mm
TRANSVERSE DEFORMATION:	≥0.5MPa after 6 hours
CLASSIFICATION:	EN12004 Type C2 F S2

DIRECTIONS FOR USE

PREPARATION

General

All substrates must be suitably dry and comply with the recommendations in the British Standards and TTA Guidance documents. All substrates should be clean and thoroughly sound; they should be free from standing water, oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion.

Gypsum Based Screeds

Gypsum based screeds require mechanical preparation by buffing, vacuuming etc. The screed must be tested to ensure it is dry (less than 0.5% moisture content measured by CM). All gypsum based screeds should be primed as follows: first coat Acrylic Primer diluted 1:1 with water and allowed to dry; second coat Acrylic Primer applied neat and allowed to dry fully. If particularly absorbent, subsequent coats may be required.

Gypsum Plaster

Gypsum plaster on walls is suitable for a weight of tiles and adhesive of up to 20kg/m2. Plaster should not be dusty or overly polished and should be primed with Larsen Acrylic Primer.

Green Screeds

Newly installed cement based screeds should be at least 4 days old before tiling and the surface sufficiently strong to resist damage. Ensure there is adequate provision for movement joints in both the screed and the tiling.

Underfloor Heating

New heating systems must have been trialled at a high temperature for a period of at least 48 hours in advance of tiling. Ensure the heating is turned off at least 48 hours before any tiling work is carried out and not turned on until at least 7 days after the work has been completed. Heating should be turned on at the lowest setting and the temperature increased by no more than 5°C per 24 hours. Particular attention should be given to ensure there is adequate provision for movement joints in the tiling.

Timber Substrates

Timber substrates must be sufficiently rigid and supported to be free from excessive deflection under expected loads. Ensure adequate ventilation exists beneath the floor. Ensure all new wood (including joists) is 'dry' and conditioned. The floor should be designed to accommodate both seasonal changes in moisture and the changes caused by step changes in heating. Extra joists/noggins should be added to strengthen the floor as required. In wet areas timber substrates must be suitably tanked. Plywood on walls is no longer considered a suitable substrate for direct tiling. Tongue & Groove Floor Boards: As necessary, sand surface to remove any contamination. Screw fix the boards at 300 mm centres with 2 screws per board width. If insufficient support exists to allow this or if excess deflection is evident, extra noggins/joists should be added (or alternatively overlay the floor with at least 15mm thick exterior grade plywood).

DIRECTIONS FOR USE (continued)

PREPARATION (continued)

Plywood or Chipboard Plywood should be at least 18 mm exterior grade and chipboard should be flooring grade. Boards should be free from any wax or other coating which may impair bond. Ensure surface is free from contamination and that the backs and edges of all boards are sealed against moisture ingress. Screw fix the boards at 300 mm centres and at 150 mm centres along joints. Ensure all edges are fully supported along joists or noggins. If insufficient support exists to allow this or if excess deflection is evident, extra noggins/joists should be added or consideration given to overboarding.

Metal Tiling onto sheet metal should be carried out with care. Galvanised steel, aluminium or painted metal are not considered suitable for tiling. The steel should be adequately supported and fixed to prevent deflection due to its own weight, the weight of tiling or any applied load during the life of the tiling installation and to prevent excessive expansion/contraction due to temperature change. In limited areas the prepared metal can be primed with Larsen Primer Grip360 before tiling with Larsen Professional Ultimate Flexible Rapid Set. For large areas, a resin based adhesive should be considered i.e. Larsen Epoxy Bond or Larfix E.

Movement Joints It is important to ensure that there is adequate provision of movement joints in all wall and floor tiling. It is recommended to follow the guidance provided in BS 5385 and by the Tile Association and proprietary joint manufacturers. Ideally, movement joints should be detailed by the designer at the outset. For further information or for situations which are not covered above, consult our website or contact our Technical Dept.

PRIMING

Larsen Acrylic Primer should be used to prime surfaces when required. On porous substrates, dilute 1:1 with clean water and allow to dry before applying adhesive. On impervious substrates, apply primer neat and allow to dry, alternatively Primer Grip 360 should be used. Tiling should be carried out when the primer has dried clear.

MIXING

The adhesive should be added to clean water (approx. 4L water/20kg) adhesive and mixed with a suitable forced action mixer or slow speed drill and paddle until a slump free mortar is produced. The mixed adhesive is usable for up to 45 minutes depending on site temperature and conditions. Do not attempt to remix adhesive or add extra water after it has begun to stiffen as this will cause a loss in performance.

APPLICATION

The mixed adhesive should be applied to dry areas on walls using a suitable notched trowel and applied by solid bed on wet areas on walls, on all exterior tiling and on all floor tiling. In addition, when fitting large format tiles it is highly recommended to also fully skim the back of the tile with a thin layer of adhesive. Tiles should be placed with a firm twisting action before the adhesive has skinned over, i.e. within the open time. Regularly check to ensure adequate contact between adhesive, tile and substrate. 'Dot and Dab' method of fixing is not suitable.

GROUTING

Only grout when the tile adhesive has set. Typically this is within 18 hours for standard setting adhesives and within 3 hours for fast setting adhesives.

RESTRICTIONS

'Dot and Dab' method of fixing is not suitable. Tiles should not be fixed to wooden substrates externally or in wet areas. Excessive deflection/movement resulting from incorrect preparation will result in cracking of tiles and/or debonding. Floating Timber and Laminate floors are not recommended substrates for direct fixing of rigid floor finishes. Pale coloured marble/porcelain can be translucent and dark coloured adhesive can sometimes show through. If in doubt we would always recommend tiling a small trial area using a white adhesive and back buttering the tiles to ensure a uniform adhesive coverage. Cement-based products will take longer to harden and set at lower temperatures, and should not be used below 5°C. All tiling should be carried to current best practice, including British Standards and TTA Guidance documents.