

Professional Flexible Fast Set

Larsen “Professional Flexible Fast Set” is a specially formulated, polymer modified, deformable, fast setting, cement based adhesive. It is suitable for beds of 3 – 6mm, interior, exterior, floor and wall applications. While it is mainly used up to 6 mm bed depth it is suitable for use up to 12mm in isolated areas. It is suitable for areas which are totally immersed in water eg: swimming pools and wet rooms. Professional Flexible Fast Set is suitable for fixing ceramic, fully vitrified tiles, natural stone and mosaics to a variety of substrates including those subject to minor movement/vibration including: under floor heating and properly prepared timber.

- Suitable for: Ceramic, marble/natural stone, porcelain, glass, mosaic and terrazzo tiles.
- Suitable for: Under floor heating and over sheeted timber
- Deformable
- Grout after 2 hours
- BS EN 12004 Type C2FS1
- Grey and White

DIRECTIONS:

Preparation

All substrates must be suitable to receive tiling as per current good working practices. 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. The following are some guidelines for typical substrates. It is recommended that current best practice, e.g. current TTA or COP guidelines are always followed. For further information or for situations which are not covered below, consult our website or contact our Technical Dept.

Concrete or Sand/Cement Screed Generally requires no further preparation. Care should be taken with to ensure no residue mould oil or curing membrane is present on the



surface. Contact our Technical dept for advice in the case of power-floated concrete. If the surface is particularly porous prime as detailed below. New concrete should be at least 4-6 weeks old and fully cured and dry. New screed should be at least 21 days old and thoroughly dry.

Tile Backer Boards Proprietary tile backer boards are available and advice on their usage should always be taken from the manufacturer. Some may require priming before tiling. Some tile backer boards can accept a weight of up to 35-50kg/m² including the weight of adhesive, making them suitable substrate for fixing thick or heavy tiles to walls.

Timber Tiling onto timber substrates can cause problems, the following are only brief guidelines, please familiarize yourself with our full recommendations before commencing work. All timber sheets on walls should be at least 15mm exterior grade plywood, screw fixed at 300 mm centres. Depending on the quality of the plywood, tiling up to 32kg/m² including the weight of adhesive can be supported. On floors existing floorboards should be overlaid with minimum 15mm exterior grade plywood, screw fixed at 300 mm centres. OSB may be used on floors but must be flooring grade, rigid and screw fixed at 300mm centres, the surface should be sanded to remove any wax or similar treatment and then primed. WBP plywood may be used but due to the variability in quality, extra care should be taken. It is recommended that WBP sheets are sanded and primed before tiling. Edges of all timber sheets should be supported by joists or studs and where possible timber sheets should be tongue and groove. In wet areas timber should be suitable tanked.

Gypsum Based Screeds Some gypsum based screeds (including alpha hemihydrate and anhydrite) require the

HANDLING PRECAUTION Larsen products are generally safe provided they are used as instructed and that certain precautions normally taken when handling chemicals are observed eg, do not allow any material to come into contact with foodstuffs. Avoid contact with skin. Do not swallow. Always read the safety information on the pack and the Safety Data Sheet before use.

IMPORTANT NOTE The information given in this data sheet is based on both current development work and many years' field experience. Whilst every effort is made to ensure that the information is reliable we cannot accept responsibility for any work carried out with our materials where we have no control over methods of application, site conditions etc.

For further information consult our Technical Department
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removal of surface laitance by mechanical means. The screed should be 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; apply tile adhesive while second coat is tacky.

Underfloor Heating The screed should be suitable to receive tiling and suitably dry. A new heating system must have been trialed at a high temperature for a period of at least 48 hours in advance of the following preparation. Ensure that the heating is turned off at least 48 hours before any tiling work is carried out and not turned on until at least 24 hours after the work has been completed. In cold conditions, if there is no other heating on site, keep the heating on at a low, steady temperature, i.e. 15°C. Again for 48 hours before tiling, during tiling and for 24 hours after the work has been completed. After tiling, when the heating is turned on, ensure that the temperature is increased by no more than 5°C per 24 hours. This is to prevent delamination and cracking caused by thermal shock.

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 apply adhesive when primer is still tacky.

Mixing

The adhesive should be added to clean water and mixed with a suitable forced action mixer or slow speed drill and paddle until a slump free mortar is produced approx. 5 L water / 20 kg adhesive. The mixed adhesive is usable for up to 60 minutes depending on site temperature and conditions. Do not add extra water as this will cause a loss in performance.

Application

The mixed adhesive should be applied to dry areas on walls using a notched trowel and applied by solid bed on wet areas on walls, all exterior tiling and floor tiling. Tiles should be placed with a firm twisting action before the adhesive has skinned over, i.e. within the open time.

Grouting

Only grout when the tile adhesive has set. Use: Floor Grout for tile joints of 3 –15 mm width; Flexible Floor or Professional Stain Resistant Wide Joint Grout for tile joints of 3 –20 mm width; Wall Grout for tile joints of up to 3 mm; or Professional Stain Resistant Narrow Joint Grout up to 4mm. In hygienic areas, or areas requiring an impervious grout (e.g. swimming pools), use Professional Epoxy Grout for tile joints of 1 –10 mm.

Restrictions

'Dot and Dab' is not a recommended method of application. Cement based products will take longer to harden and set at lower temperatures and should not be used below 5°C. All

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tiling should be carried to current best practice including British Standards and TTA Guidance documents.

Technical Information

PRODUCT INFORMATION	
FORM	Powder
COLOUR(S)	Grey or White
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 and 10kg multiwall, sealed paper sacks
STORAGE CONDITIONS	Store in sealed containers in dry conditions, protected from extremes of temperature
SHELF LIFE	6 months in unopened manufacturer's packaging
APPLICATION INFORMATION	
MIX PROPORTIONS	Mix 20 kg powder with 5L water
POTLIFE	Approx. 60 minutes @ 20°C
APPLICATION TEMPERATURE	+5°C to +30°C
OPEN TIME	10 minutes@ 20°C
BED THICKNESS	3- 6mm (up to 12mm in small isolated areas)
TIME TO TRAFFIC	Grout after 2-3 hours Light Foot Traffic after 2-3 hours Full Traffic after 6 hours (depending on site conditions)
COVERAGE	6 – 7m ² /20kg bag @3mm bed
PERFORMANCE INFORMATION*	
TENSILE ADHESION STRENGTH	≥1 MPa under all test conditions
OPEN TIME	Approximately 10 minutes
EARLY TENSILE ADHESION STRENGTH	≥0.5 MPa after 6 hours
TRANSVERSE DEFORMATION	≥2.5mm <5mm
CLASSIFICATION	Type C2 F S1

*Typical Results to BS EN 12004

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