LARSEN

TECHNICAL DATA SHEET
Version: 03ssued: Jan17

PROFESSIONAL SLC1550 FLEX

Professional SLC 1550 FLEX is a single pack, fast-drying, universal renovation screed with fiberflex™ microfibre technology. It is manufactured from a controlled blend of special sands, cements and synthetic polymers to give a high quality flooring product which is self-levelling and smoothing. For use in fast track domestic and commercial situations, such as, where levelling of up to 50mm is required or for use over underfloor heating and on more difficult substrates, e.g. timber. It does not provide a wearing finish but provides an ideal surface to receive resilient floor finishes including: carpet, natural stone, ceramic tiles, vinyl, resin coatings, etc. It is ideal for offices, dwellings, schools, hospitals, airports, etc.

SINGLE PACK
3-50MM IN ONE APPLICATION
FAST DRYING
PROTEIN-FREE
FIBRE-REINFORCED
FOOT TRAFFIC IN 2 - 4 HOURS

LARSEN

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

PRODUCT INFORMATION	
FORM:	Powder
COLOUR:	Grey
HAZARD INFORMATION:	IRRITANT contains cement – Consult Safety Datasheet before use
CLEANING:	Clean tools, equipment etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING:	20kg 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 pack with approx. 4L water
POT LIFE:	Approx. 30 minutes @ 20°C
APPLICATION TEMPERATURE:	+5°C to +30°C
BED THICKNESS:	3- 50mm (min 10mm when using reinforcing mesh)
TIME TO TRAFFIC:	Light Foot Traffic - after 2 - 4 hours Full Traffic - after 1 - 2 days Covering - after 1 - 3 days (depending on depth and site conditions)
COVERAGE:	Approx 2.5 - 3m^2 / 20kg pack @ 5mm
PERFORMANCE INFORMATION	
SHRINKAGE	<0.06%
COMPRESSIVE STRENGTH	≥25MPa
FLEXURAL STRENGTH	≥7MPa
CLASSIFICATION:	EN13813 - CT-C25-F7

DIRECTIONS FOR USE

Preparation

The building must be weather tight prior to the placing of any screed material: the roof, external doors and windows must be in place and closed or covered and taped to prevent draughts. All substrates must be suitable to receive the screed as per current good working practices. The substrate may be structurally sound concrete or screed; suitable timber; ceramic tiling; or existing resilient flooring. It must be thoroughly clean, dry and free from laitance, grease, oils, paint or other contaminants which may impair adhesion. Suitable mechanical preparation of substrate may be required. Air and substrate temperatures must be greater than 5°C. Relative Humidity of the floor must be <95% generally and <75% when moisture sensitive finishes are to be laid (if >75%, Larsen DPM should be applied to the substrate). Existing movement joints should be carried through the SLC1550FLEX, preferably with proprietary joints. When applying over underfloor heating a suitable 10+mm PE foam expansion strip should be fitted the full depth of screed around the entire perimeter of the floor. In some instances it may be necessary to incorporate a glass fibre reinforcing mesh in the screed, consult Technical Department for advice.

Priming

Normal concrete/screed requires priming with Larsen Acrylic primer diluted 1:1 with clean water. Particularly porous concrete/screed requires priming with Acrylic primer diluted 1:1 with clean water followed by a coat of Acrylic primer applied neat. Relative Humidity of the floor must be <95% generally and <75% when moisture sensitive finishes are to be laid (if >75%, Larsen DPM should be applied to the substrate).Timber floors must be free from deflection and be suitably stable. Existing floorboards should be overlaid with minimum 15mm moisture resistant 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. 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 suitably tanked. All timber substrates should be primed with one coat of Acrylic Primer applied neat. Allow primer to dry to a transparent tacky film before applying SLC1550FLEX.

Mixing

Add 3.75 -4.25L of clean water per 20kg bag to achieve target flow of 215-230mm without bleed or settlement. Mix with a heavy duty drill and paddle for 1-2 minutes or with a suitable continuous mixer/pump. Excess water will cause a loss of strength.

Application

Pour or pump the mixed product over the floor. SLC 1550 FLEX will level out to a smooth finish. Where necessary, release air bubbles with a trowel or spiked roller. This practice must be carried out within 5 – 10 minutes of application. SLC 1550 FLEX can be applied up to 50mm (minimum of 3mm). For thickness >30mm consult Technical Department for advice. The screed must be protected from draughts within the first 6 hours, if necessary open doorways and windows should be closed using tape and polythene.
Subsequently, ensure the room has sufficient ventilation to allow the screed to dry out. After installation protect the screed from following trades. SLC 1550 FLEX will accept foot traffic after 2 - 4 hours. Floor coverings can be installed after 24 - 72 hours depending on thickness of SLC 1550 FLEX, substrate and site conditions. Should any trowel marks remain, remove with a wet trowel after 1-1½hrs.

Restrictions

Prof SLC 1550 FLEX is not suitable for industrial use and cannot be used as a final wearing surface. Prof SLC 1550 FLEX should not be applied to flexible surfaces or surfaces subject to vibration. All substrates must be suitable for the intended duty and traffic without excessive deflection. All substrates must be sufficiently strong and stable to bear the weight of screed and covering. Prof SLC 1550 FLEX is suitable for use over underfloor heating systems. Room and substrate temperatures should be above 5°C during application.

For further information consult our
Technical Department
BELFAST: 028 9077 4000
DUBLIN: 01 834 8255

www.larsenbuildingproducts.com