

Flowcrete 340/5/LV

An ultra low viscosity, solvent free liquid for re-strengthening and restoration of failed cement/sand. Flowcrete 340/5/LV penetrates into the defective screed, filling voids and binding loose particles together to provide a high strength material.

Primary Uses

- Refurbish failed cement/sand screeds to a better than new condition in heavy use areas.
- To re-bond de-bonded cement/sand and granolithic screeds.
- To close, seal and bridge dry cracks in concrete building components and pre-stressed concrete elements.
- To join building components where structural strength is required.



Fast Track Installation:

Minimum disruption to occupants with overnight cure for failed screeds.



Non-Harmful:

Solvent free, low odour and dust free installations.



Waterproof:

Impermeable to water, acts as a damp proof membrane.



Peace of Mind:

Installed only by approved applicators.

Technical Profile

MODULUS IN TENSION	
ISO 527	2.81 GPa
MODULUS IN FLEXURE	
ISO 178	2.64 GPa
ABRASION RESISTANCE	
BS 8204:Part 2	AR1 / DF (very heavy duty)
BOND STRENGTH	
> 1.5 MPa*	
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
FREEZE / THAW CYCLE TEST	
No loss of adhesion	
WATER VAPOUR PERMEABILITY	
ASTM E 96:90	2gms / m ² / 24 hours
COMPRESSIVE STRENGTH	
BS 6319	77 N/mm ²
FLEXURAL STRENGTH	
BS 6319	74 N/mm ²
TENSILE STRENGTH	
BS 6319	60 N/mm ²
NO. OF COMPONENTS	2
MIXING RATIO	2:1
POT LIFE (250ml @ 25°C)	20 minutes
APPLICATION	Brush, roller or injection
COVERAGE	Depends on concrete density
OVERCOAT TIME	Minimum 6 hours
TOP COAT OVERCOATING	Maximum 18 hours
COLOUR	Clear
CLEANER	W.S.B.C
LIFE	12 months
SPEED OF CURE**	
Initial Set	8 hours
Full Cure	12 days

The figures here are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

*Assumes concrete compressive strength is greater than 25 N/mm²

Model Specification

Product	Flowcrete 340/5/LV
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Preparatory work and application in accordance with manufacturer's instructions. The system to be supplied and installed on a scarified or vacu blasted screed in accordance with the instructions of Flowcrete, by one of their approved applicators. Ensure dust free surface before application.

Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and repair of damaged floors reduce the need for further repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

Installation Service

The installation should be carried out by a Flowcrete approved applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site www.flowcretesa.co.za

Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Application

Surfaces must be dry, clean and free of separative substances. The surfaces of the building components to be patched must be such that sufficient adhesion of the patching (>1.5 N/mm²) is guaranteed. Surface packers must be fastened on the cracks and then installed in the patching. Use 319TAQ to install surface packers. Patch the cracks with 319TAQ applying an even layer at least 10 cm wide and 3 mm thick. Leave 3–5 cm at the highest points of the cracks unpatched to allow for sufficient venting.

Screed re-strengthening: Immediately after mixing decant into smaller containers to prevent exothermic reaction. Apply with roller with constant movement to ensure absorption is satisfied. Broadcast 0.3–0.65 mm grade silica sand to full cover. Allow to cure. Remove excess sand, then apply Flowscreed Industrial Top underlayment to finished level ready for floor covering.

De-bonded screed or crack repairs: Note: Prior to crack injection, analysis of building structure is required. The extent of this analysis and the type of documentation depend on the crack phenomena and their impact on the building structure. It is necessary to assess the dampness and crack characteristics (crack type, crack course, crack width etc.) in order to determine cause of damage and to select appropriate filling materials. It depends on the nature of the building structure and the filling properties of the cracks or cavities whether drill-hole, surface or hammer-in packers shall be used.

Gravity injection: Drill through screed at no more than 100mm centres in de-bonded areas or along line of cracks. Vacuum out all dust from holes and surrounding areas. Immediately after mixing decant into smaller containers to prevent exothermic reaction. Fill holes and keep topped up until no further material absorbed. Cap the hole off and prepare the surface as required to receive subsequent floor finishes.

Pressure injection: Install drill-hole packers in such a way that the injection hose can be connected comfortably to the fittings. The packers must be fastened tightly in the drill-holes. When injecting via surface packers, it is absolutely necessary to patch the cracks.

Apply Flowcrete 340/5/LV by means of a single-comp. pump. The application and object temperature must be at least 8°C. Blow dry, oil-free compressed air through packers and patching prior to the injection to check their functionality. The injection pressure depends on the nature of the building. Start injection by filling lowest crack areas first. In the case of horizontal cracks, carry out injection from one side in order to avoid air inclusions. When injecting the last packer, check air vent for emerging resin. A secondary injection should be carried out during gelling phase of the material (up to approx 30min after end of pot life). The pot life of the material may be shorter due to the residual heat of the injection pump. As soon as the material in feed container of pump heats up it must be either used immediately or removed from pump.

Focus on the Floorzone

Flowcrete Group are world leaders in specialist industrial and commercial flooring. Systems available include: floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few. Our objective is to satisfy your Floorzone needs.

[12/03/19]