

LARCEM SPEEDO

Larcem Speedo is a screeding admixture for cement/sand leveling screeds. Speedo promotes high early compressive and flexural strengths and quickly reducing the level of retained moisture within the mortar. Speedo is used in fast track construction and refurbishment projects where the screed needs to be trafficked or overlaid quickly. It can be used in bonded, unbonded or floating screed construction. Speedo is supplied in concentrated form for dilution in gauging water.

- **Fast Track installation of sensitive finishes.**
- **High strength has resistance to construction traffic.**
- **Excellent workability and compaction qualities.**
- **Mix designs meet Category A & B BRE Screed Test, as per BS8204.**
- **50mm of screed reaches 74%RH @ 8days.**

Technical Information

FORM:	Liquid
COLOUR:	Pale Yellow
CHLORIDE CONTENT:	Nil (i.e. <0.2 %)
DENSITY:	1.3
PROPERTIES OF SCREED	
Water/Cement Ratio:	0.38
Setting Time (3.5N/mm ²):	~2hrs
Cured Screed Density:	2300kgs/m ³
Compressive Strength:	24hrs ~25 N/mm ² 28days ~50 N/mm ²
Moisture Content: Drying time for 50mm of screed.	

Days after Casting	Hygrometer Reading %
2	86
3	80
6	78
8	74

The accepted figure for the laying of vinyl floor coverings, tiles etc is <75%RH.

Directions

Select correct screed from table 1. Prepare and prime as required (see below). Apply screed as normal. Ensure water/cement ratio is kept below 0.4. At thicknesses over 50mm it is advisable to lay the screed monolithically (wet on wet) to ensure compaction embedded conduits and pipes must be 25mm beneath the surface. Install reinforcing mesh at half depth above the pipework and 250mm each side.

Screed Selection (Table 1)

TYPE	MINIMUM THICKNESS	SUBSTRATE	PRIMER	MIX DESIGN
Bonded	35mm (40mm overall)	Suitable substrate, mechanically prepared (and optionally covered with Larcote DPM)	Larcem25:Cement (1:1)	Larcem Speedo Mix to 75mm
Bonded	50mm	Suitable substrate, mechanically prepared.	Larcem25:Cement (1:1)	Larcem Speedo Mix to 75mm
Unbonded	50mm	A damp proof membrane, separating layer on contaminated concrete base	None	Larcem Speedo Mix to 75mm
Floating (light use)	65mm	Insulating quilt or board	None	Larcem Speedo Mix to 75mm
Floating (heavy use)	75mm	Insulating quilt or board	None	Larcem Speedo Mix to 75mm

HANDLING PRECAUTION Larsen products are generally harmless 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 prolonged contact with skin. Do not swallow. For specific product safety details consult the Material Safety Data Sheet.

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 as we have no control over methods of application, site conditions etc.

**For further information consult our Technical Department
TEL: BELFAST 02890774000 DUBLIN 018348255**

Mix Design (Table 2)

	Mix Design
Portland Cement (CEM I)	500kg
Medium grade sharp sand**	1500kg
Larcem Speedo*	10 L
Total Water	180 L approx
Yield	1m ³ approx

* add Larcem Speedo to water, then to cement and sand to achieve working consistency.

** mix designs are based on kiln dried (not site dry) sand.

Preparation

The substrate must be free of all oil, grease, existing sealers or other contaminants. All loose material should be removed and a key provided using a scabbling machine or enclosed grit blaster. The surface should be well soaked with water prior to application of the bonding grout. Do not allow ponded water to remain on substrate.

Priming

When using Larcem 25 bonding grout, mix 1 part Larcem 25 with 2 parts fresh Portland Cement to produce a stiff grout. Scrub this grout into pre-dampened concrete. Do not allow to dry prior to the application of subsequent layers.

Application

Batch and mix screed in the normal fashion, always use a forced action mixer. Speedo Screeds may be pumped as normal using Putzmeister or similar equipment. The screed should be laid and leveled as a normal levelling screed and conventional tools such as float and trowel should be used to obtain the desired surface finish. Keep windows, doorways etc closed for the first 1-2 days to prevent draughts, after which time the screed must be well ventilated to allow drying.

Note

Larcem Speedo is an accelerator and such a reduction in setting times results from its use. If ready mixed Speedo screed is required, a retarder can be added to the mix design to delay set, without affecting the drying characteristics of the screed. Contact our Technical Department for further information.

A finish is required over any Larcem Speedo screed (vinyl, carpet, resin, timber etc).

Drying Times

Allow approx. 8 days per 50mm thickness at 20°C in well ventilated conditions before laying floor finishes. Excessive moisture in the building structure, low site temperatures, high air humidity, the use of blended cements or deviation from the mix design, will delay the rate of drying. The flooring contractor must always check the moisture content of the floor before installing finishes. Thick screeds (>75mm) will take longer to dry out than the rates indicated. Wetting of completed screeds will considerably extend the drying times. The drying times shown are indications based on the mix design quoted in ideal site conditions.

Cleaning

While still soft, Larcem Speedo mixes may be cleaned off with water.

Storage

Store in closed containers in dry, cool conditions, away from extremes of temperature.

Shelf Life

12 months in unopened manufacturers sealed containers.

Packaging

Larcem Speedo is supplied in 5L, 25L, 200L and bulk.

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