



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 07/2011

# TSIRCO-SL SCREED

## Self- Levelling Cementitious Screed

**Product:** An economic Self Levelling Cementitious Screed for applications over 5mm thickness.

**Composition:** A cement mix incorporating special cements, fillers, fibres and other additives to produce, when mixed with water, a self-levelling screed for industrial floors with anti-cracking properties.

**Purpose:** For the construction of new or upgrading existing industrial floors with good abrasion and impact resistance properties. It is also used as a levelling screed for raised floor. Furthermore it can be used for covering floor-heating with the addition of Tsirco-Flo SCA 43 at the rate of 30cc per 25kg measured with the dosing cup provided must be made.

### Advantages:

- ❖ Economic and easy to use
- ❖ Quick strength development
- ❖ Increased mechanical properties
- ❖ Durable and water resistance
- ❖ Anti-shrink properties
- ❖ Excellent impact and wear resistance properties.
- ❖ High resistance to freezing and thawing.
- ❖ Non toxic.
- ❖ Can be used for covering floor-heating.



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- ❖ It can be used as an industrial flooring, with or without overcoating and it can be used as an underlay for parquet finish, carpet, linoleum, etc.

## Where to use:

It can be applied almost on all surfaces after carrying the proper preparations. For surfaces other than concrete, or areas with rising dampness, please consult our Technical Department. Tsirco SL-SCREED can also be used as a levelling screed for raised floor.

## How to use:

### 1. Preparation

The substrate must be clean and free from dust, loose particles, oil, grease, paints and generally any contamination. This can be achieved by grid blasting or grinding the surface to be treated if required. To strengthen existing surfaces or minimize rising dampness use Tsirco-Res 481 or Tsirco-Latex SB as primers.

### 2. Mixing

The material is mixed mechanically for at least 3 minutes until a uniform flowable consistency is achieved. Use 2.7-2.9lt of water with 25kg of material. Further addition of water may be required depending on climatic condition.

In case that the material is used for covering floor-heating, add 30cc per 25kg of material.

### 3. Application

Thoroughly dampen the surface and then apply the material to the required thickness and level off by tamping lightly the surface with appropriate trowel.

**Coverage:** Approximately 1.7-1.9kg/m<sup>2</sup>/mm thickness.

**Cleaning:** Right after use, clean the equipment with water.



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**Workability Time:** 20 minutes at 20°C.

**Initial Setting Time:** 60 minutes at 20°C.

**Storage:** Store at a dry environment and away from direct sunlight.

**Application temperature:** +5°C up to +35°C

**Protective Measures:** The material is non-harmful but avoid contact with the skin and use gloves.

**Technical properties when curing at 20°C**

1. Crushing strength:	3 days	> 50N/mm <sup>2</sup>
	7 days	> 70 N/mm <sup>2</sup>
	28 days	> 90 N/mm <sup>2</sup>
2. Bond strength:		> 2 N/mm <sup>2</sup>
3. Flexural Strength:	3 days	> 5N/mm <sup>2</sup>
	7 days	>5.8 N/mm <sup>2</sup>
	28 days	>9 N/mm <sup>2</sup>