

## HIGH QUALITY ULTRA THIN SCREED FOR BONDED AND UNBONDED APPLICATIONS



### CASE STUDY RETAIL REFURBISHMENT

This project was a 4,500m<sup>2</sup> retail refurbishment. National screed installation specialist, Screedfloor Ltd, was asked to install a thin screed over an existing 4500m<sup>2</sup> rough concrete floor. The options available were limited by the fact that the screed had to be as thin as possible, as little as 15mm in places, but had to

be able to vary in depth up to as much as 45mm. It also had to be fast to install, quick to dry and cost effective.

Gypsol TS-15 screed was the most appropriate material for the project. Requiring no reinforcement, TS-15 is designed and tested for applications that are bonded or un-bonded at just a 15mm depth, making it unique in the industry. An M13 NBS specification was drawn up which allowed the screed to be laid un-bonded over a simple polythene membrane, and offering huge reductions in the level of subfloor preparation that would have been required for a bonded alternative.

As TS-15 can be laid to a minimum of 15mm, each m<sup>3</sup> yields more than 65m<sup>2</sup>, so the speed of installation can be very rapid. In this project the first pour saw over 1,000m<sup>2</sup> installed in little more than six hours, and with the whole project being completed in just four visits.

## DESCRIPTION

**Gypsol** TS-15 screed is a revolutionary new anhydrite screed material. It is specially formulated to offer a strong and durable ultra-thin topping to a solid interior substrate, for example, in situ concrete or beam and block or precast concrete plank. Tested to BS 8204:1:2003 it meets the requirements for class A for impact resistance. Due to its ultra-thin depth, just 15mm minimum, TS-15 can be dried quickly allowing rapid return to service and application of finished floor coverings.

**Gypsol** TS-15 is perfectly suited to flooring applications where height is extremely restricted and offers a lightweight cost effective alternative to smoothing compounds. It can be installed extremely quickly to at least 2000m<sup>2</sup> per day. This represents a significant saving in time when compared to bagged, site mixed smoothing compounds and levelling screeds.

**Gypsol** TS-15 screed is designed to be laid to a minimum of 15mm depth and can be used either bonded directly to a solid substrate prepared in accordance with BS 8204:7:2003 or un-bonded on a polythene membrane.

For project specific advice on design and for a model specification, contact our technical and specifications team on **01928 574574**

Some typical applications include:

- Refurbishment of old uneven floors.
- Remediation or correction for out of level concrete slabs
- As a levelling screed over floors where floor to ceiling height is very restricted.
- Sub floor levelling in preparation to receive finished floor coverings.
- Overlay for poorly levelled screeds
- As an alternative to light weight screeds

## PHYSICAL DATA

<b>Appearance</b>		Off white fluid mortar
<b>Density</b>	Wet	2200kg/m <sup>3</sup>
	Dry	2000kg/m <sup>3</sup>
<b>Minimum strength</b>		C35-F6
<b>Required flow (EN 13454-2)</b>		230mm to 270mm
<b>Reaction to fire</b>		Class A1 <sub>n</sub> non combustible

## PERFORMANCE DATA

<b>Working time</b>	Place and finish within 2 hours of batching Finish within 1 hour of placing
<b>Foot traffic</b>	24 to 48 hours
<b>Loading</b>	5 to 7 days
<b>Drying Time</b>	At 20°C and 60% RH - in excess of 1mm/day
<b>Force Drying</b>	Can be force dried after 7 days
<b>Minimum Depth</b>	15mm

## TYPICAL APPLICATION SCHEMATIC

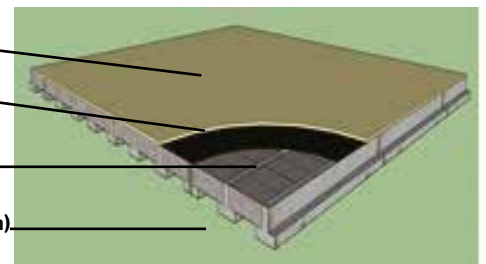
**Gypsol** TS-15 screed laid un-bonded

Minimum 15mm **Gypsol** TS-15 Screed

Polythene slip membrane

Solid substrate as specified

Ceiling detail to be specified (not shown)



## ENVIRONMENTAL DATA

<b>Recycled content</b>	Binder	98%
	Mortar	up to 40%
<b>Carbon emissions</b>	Binder	10 to 30kg/tonne
	Mortar	30 to 50kg/m <sup>3</sup>
<b>VOC</b>		Virtually zero
<b>Recyclability</b>		100%

## HEALTH AND SAFETY DATA

**Gypsol** TS-15 screed is delivered to site ready to use via offsite mixing plants removing the need for labour intensive site mixing and associated mixing equipment.

**Gypsol** TS-15 screed is pumped directly to where they are needed removing much of the manual handling operations required to install other screeds.

**Gypsol** TS-15 screed is generally pumped using equipment with closed or gridded dispensing hoppers removing risk of contact with moving machinery.

**Gypsol** TS-15 screed is finished using a lightweight dappling bar requiring no secondary compaction thus removing most of the physical work needed to lay other screeds. This significantly reduces the negative impact on the musculo-skeletal system of installing contractors. For material safety information please see the relevant health and safety data sheets.



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