Gypsol TS-20

High quality thin screed for bonded and unbonded applications

Gypsol TS-20 screed is a revolutionary new anhydrite screed material. It is specially formulated to offer a strong and durable 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 thin depth, just 20mm minimum, TS-20 can be dried quickly allowing rapid return to service and application of finished floor coverings.

Gypsol TS-20 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 2000m² per day. This represents a significant saving in time when compared to bagged, site mixed smoothing compounds and levelling screeds.

Gypsol TS-20 screed is designed to be laid to a minimum of 20mm 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.
Physical data

**Appearance**
Off white fluid mortar

**Density**
<table>
<thead>
<tr>
<th>State</th>
<th>Value (kg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet</td>
<td>2200</td>
</tr>
<tr>
<td>Dry</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Minimum Strength**
C30-F5

**Required Flow (EN 13454-2)**
230mm to 270mm

**Reaction to Fire**
Class A1, non combustible

Performance data

**Working Time**
Place and finish within 2 hours of batching.
Finishing within 1 hour of placing.

**Foot Traffic**
24 to 48 hours

**Loading**
5 to 7 days

**Drying (50mm depth)**
At 20°C and 60% RH - In excess of 1mm/day

**Force Drying**
Can be force dried after 7 days

**Typical depth**
20mm

Case study - Print room refurbishment

Label Craft is a manufacturer of self-adhesive labels in Dublin, Ireland, and Gypsol’s thin TS-20 screed was chosen to provide the solution to their print room floor refurbishment. Due to the replacement of steel floor cassettes, and a restructure of their print press area, the client needed a solution to the resulting change of floor levels in their print room. Unless they are level, the business’s printing machines simply won’t work.

Gypsol TS-20 screed was applied and provided a flat, level and very thin layer to the existing uneven surface. Due to the physical strengths and drying rates of Gypsol’s TS-20 screed, along with the very fast un-bonded installation, the client was able to minimise production delays and re-mount their 6 tonne press onto the freshly screeded floor after just two weeks.

Environmental data

**Recycled Content**
<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder</td>
<td>98%</td>
</tr>
<tr>
<td>Mortar</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Carbon Emissions**
<table>
<thead>
<tr>
<th>Component</th>
<th>Emissions (kg/tonne)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder</td>
<td>10 to 30</td>
</tr>
</tbody>
</table>

**Minimum Strength**
<table>
<thead>
<tr>
<th>Component</th>
<th>Strength (kg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mortar</td>
<td>30 to 50</td>
</tr>
</tbody>
</table>

**VOC**
Virtually zero

**Recyclability**
100%

Health and safety data

Gypsol TS-20 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-20 screed is pumped directly to where they are needed removing much of the manual handling operations required to install other screeds.

Gypsol TS-20 screed is generally pumped using equipment with closed or grilled dispensing hoppers removing risk of contact with moving machinery.

Gypsol TS-20 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.