

# HDS



HDS is an advanced, trowel-applied epoxy resin-based screed which will produce a coloured, durable, seamless industrial floor. HDS will provide optimum chemical resistance, and very high impact and abrasion resistance for areas subjected to extremely demanding conditions. It is mainly used in demanding areas, such as: chemical production plants; loading areas; and floors subject to heavy industrial traffic to provide a seamless, trowelled finish.



**HIGH IMPACT RESISTANCE**  
**EXCELLENT ABRASION RESISTANCE**  
**GOOD CHEMICAL RESISTANCE**  
**SEAMLESS**  
**HYGIENIC**  
**UP TO 50mm**  
**RANGE OF COLOURS**

**TECHNICAL INFORMATION:**

PRODUCT INFORMATION	
<b>STANDARD COLOURS:</b>	Red, Natural and Grey
<b>SPECIFIC GRAVITY:</b>	~2.0 g/ml
<b>MIN TEMP.:</b>	5°C
<b>MAX TEMP.:</b>	35°C
<b>MIN THICKNESS:</b>	4mm
<b>MAX THICKNESS:</b>	50mm
<b>POTLIFE:</b>	45 mins @ 10mins, 20 mins @ 30°C (Variations in Pot Life can be minimised by storing at 15°C - 25°C for 24 hrs before use)
<b>INITIAL CURE (Tack Free):</b>	3 hrs @ 10°C, 1 hr @ 30°C
<b>LIGHT TRAFFIC:</b>	48 hrs @ 10°C, 24 hrs @ 30°C
<b>FULL CHEMICAL RESISTANCE:</b>	14 days @ 10°C, 7 days @ 30°C
<b>TENSILE STRENGTH:</b>	15 N/mm <sup>2</sup>
<b>FLEXURAL STRENGTH:</b>	1.2 x 10 <sup>-4</sup> kg/cm <sup>2</sup>
<b>COMPRESSIVE STRENGTH:</b>	70 N/mm <sup>2</sup>
<b>BOND STRENGTH:</b>	4-8 N/mm <sup>2</sup>
<b>ABRASION RESISTANCE:</b>	2.5g loss
<b>CHEMICAL RESISTANCE:</b>	(see attached table)
<b>COVERAGE:</b>	2kg/mm thick/m <sup>2</sup>

## DIRECTIONS FOR USE:

### PREPARATION

In all cases, surfaces must be dry, sound, and oil and grease free. Concrete should be at least 4 weeks old with a relative humidity <75%. Remove all concrete surface laitance by mechanical means, e.g. grit blasting or grinding, vacuuming all dust before application. If moisture of base concrete is above 75% RH as per BS 8203, use Larcote DPM surface damp-proof membrane.

### PRIMING

Prime the substrate using Larprime EU. Mix the resin and hardener components of the primer pack together using a mechanical mixer. Apply to the prepared surface at a coverage rate of approx. 4-6M<sup>2</sup> per kg. The screed should be laid while the primer is still tacky (within approx. 2 hours at 20°C).

### MIXING

Stir the resin and hardener components of the trowel screed pack individually. Mix the resin and hardener together, then add the aggregate component and mix in a slow speed pan mixer, such as a Cretangle or with a slow speed drill and paddle. When uniformly mixed, lay the screed materials onto the primed surface using a rake and then wood float. The screed thickness should be regulated in the conventional manner. Compact the epoxy screed thoroughly using beams or a wooden float, paying special attention to edges and day joints. After compaction, a steel trowel should be used for finishing. Keep the trowel clean to prevent drag marks on the screed. Do not split packs.

### SEALING

Larseal Standard is recommended to seal the finished screed. Consult our Technical Department for further details.

### CLEANING

Tools may be cleaned with Larsolve Thinners while the material is still soft.

### STORAGE

Larfloor HDS Systems should be stored in closed containers protected from extremes of temperature.

### SHELF LIFE

12 months in unopened manufacturer's containers.

### PACKAGING

25 kg packs.

### CHEMICAL RESISTANCE

Typical data from solutions at 20°C for 90 days are given below.

Solution	Result
Acetic Acid 5%	G
Caustic Soda 30%	VG
Sulphuric Acid 10%	VG
Kerosene	E
Toluene	P
Sewage 30%	E
Brine	E
Mineral Oil	E
Nitric Acid 10%	E
Skydrol	E
White Spirit	G

Key
E = Excellent
VG = Very good
G = Good
P = Poor (Screed is heavily attacked)
D = Screed is destroyed