

Levelay HD

Self Smoothing Epoxy Flooring System

USES

Levelay HD provides a hardwearing, easily cleaned, low maintenance, attractive, smooth floor surface which is chemically resistant, impervious and seamless. Levelay HD floors are recommended for use in a wide range of industrial and commercial environments including laboratories, hospitals, food and beverage processing areas, pharmaceutical plants, electronics factories, kitchens, plant rooms, offices, production areas, workshops and warehousing areas.

DESCRIPTION

Levelay HD is a flow applied epoxy resin flooring composition formulated from specially selected resins and high strength aggregates. Levelay HD produces a finish of high strength and durability with excellent abrasion and impact resistance able to withstand aggressive operating conditions. Levelay HD can be produced in a gloss or matt finish.

ADVANTAGES

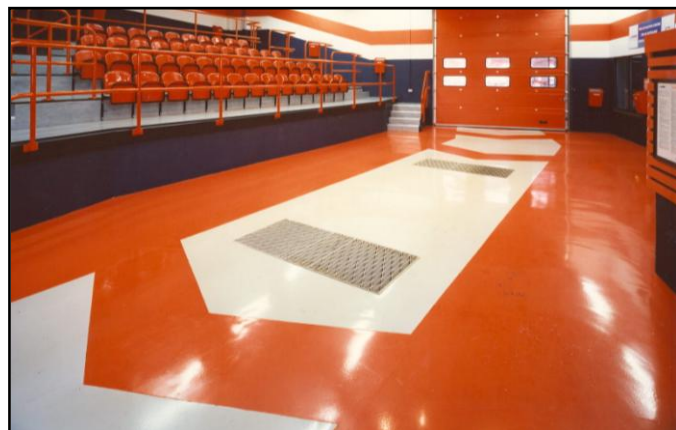
Durable	good abrasion resistance
Hygienic	impervious, easy to clean
Chemically resistant	good resistance to a wide range of industrial chemicals
Non-slip	by incorporating specially graded stop-slip aggregates
Proven performance	long standing job references

PHYSICAL PROPERTIES

Compressive strength	86 N/mm ²
Tensile strength	14 N/mm ²
Flexural strength	44 N/mm ²
Shear strength	14.7 N/mm ²
Specific gravity	2.0
Viscosity of Levelay @ 23°C	30 Poises
Taber Abrasion Resistance:	
Levelay HD	690 microns thickness loss
35 N/mm² concrete control	1230 microns thickness loss

Slip Resistance Value – BS 7976-2 : 2002

4S Rubber Slider Wet	25
4S Rubber Slider Dry	65
TRL Rubber Wet	22
TRL Rubber Dry	130



CHEMICAL RESISTANCE

Levelay HD is resistant to a wide range of chemicals. Specific data is available on request from the Technical Services Department.

COLOURS

Levelay HD is available in a range of colours. For details refer to colour chart.

TEMPERATURE

Levelay HD should not be applied at temperatures below 10°C and above 40°C

INSTRUCTIONS FOR USE

SURFACE PREPARATION

It is essential that the substrate surfaces are correctly prepared prior to application. New concrete or cementitious substrates should have been placed for at least 28 days, unless specially water reduced and give a protimeter reading of less than 75% RH. Conren WD Aquatect can be used for situations where the relative humidity is above 75% RH. All substrates should be sound and free from contamination. New or old floors should be prepared by vacuum blasting, grinding or light scabbling. Ensure that all substrates are free from rising damp. For the best results, all cracks, holes or damage to the subfloor should be repaired with Conren Patchfast epoxy resin mortar and be allowed to cure.

PRIMING – Prepared substrates should be primed with a Conren primer. Once mixed the primer should be applied immediately as a thin continuous film using stiff brushes or rollers. Over application and puddles should be avoided. Porous substrates may require two or more coats of primer. The primer should be allowed to become tack free prior to the application of Levelay HD.

MIXING AND APPLICATION

Mechanical mixing is essential and a drill and paddle type mixer is recommended. Add the entire contents of the hardener container to the base container and mix for 3-4 mins, add the aggregate and mix for another 2 mins. The Levelay HD should be poured onto the primed substrate and spread uniformly to the required thickness using a serrated steel trowel. The Levelay HD should be rolled with a spiked nylon roller after application, to aid the release of any trapped air and to assist in leveling any slight trowel marks. A broadcast of anti-slip aggregate is applied to the uncured Levelay HD after about 30-45 mins. This application is governed by the cure rate of Levelay HD and a trial should proceed the application to check the timing. Spike shoes are required to gain access over the uncured Levelay HD floor to assist in the anti-slip application.

EXPANSION JOINTS

Expansion joints in the substrate should be maintained in the Levelay HD topping.

COVERAGE & PACK SIZES

<u>Pack size - kg</u>	<u>Approx. Coverage per Coat</u>
30kg	7.5 m ² @ 2mm
40kg	10 m ² @ 2mm

PRECAUTIONS

LEVELAY HD should not be allowed to come into contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours. Epoxy resins and hardeners may act as skin sensitizers to some people. Gloves, goggles and a suitable barrier cream should therefore be used. Ensure adequate ventilation if working in enclosed areas suitable breathing apparatus must be used. Skin contamination with any of the products should be removed immediately with soap and water. In the event that mixed resin comes into contact with the skin, it must be removed before it hardens with a good quality resin removing cream, followed by washing with soap and water. Do not use solvent. If accidental eye contamination occurs irrigate with copious quantities of clean water and seek medical advice. If ingestion of any of the materials takes place, seek medical attention immediately. Do not induce vomiting.

DISPOSAL

All tools and equipment should be cleaned using Conren Solvent Cleaner immediately after use. Spillage should be absorbed with sand or sawdust and disposed of in accordance with statutory regulations.

STORAGE

Shelf life at least 12 months if stored in original containers between 10° C and 25° C.

CONTRACTING SERVICE

Conren Limited offers a contracting service for the application of all Conren products. This facility is back by a comprehensive technical and after sales service. We are able to contend with most problems in the field.

TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is give in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

SPECIFICATION

Self smoothing screeds to floors shall be Conren Levelay HD.

All products to be applied in accordance with Conren's written instructions.

Conren Limited
Ditton Road
Widnes
Cheshire
WA8 0PG
UK

Tel: +44 (0) 151 422 3999
Fax: + 44 (0) 151 424 5053
e-mail: info@conren.com
web: www.conren.com