



Levelay HD

Self Smoothing Epoxy Flooring System

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 provides a hardwearing, easily cleaned, low maintenance, attractive, smooth floor surface which is chemically resistant, impervious and seamless.

USES

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.

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 capability

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 less
35 N/mm² concrete control	1230 microns thickness loss

BS EN 13892-4:2002	Abrasion Resistance	AR 0.5
BS EN 13892-8:2002	Bond Strength	B 2.0
BS 8204:Part 1 2003	Impact Resistance	Cat. A

CE BS EN 13813: 2002 / Synthetic Resin Screed Material

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

FeRFA - Types of Synthetic Resin Flooring

Type 5 – Flow Applied Flooring

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 – Please refer to Conren’s Technical Services Department for further information regarding primers for the Levelay HD system.

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 & PACKSIZES

<u>Pack size - kg</u>	<u>Approx. Coverage per Coat</u>
22kg	5.5 m ² @ 2mm

CLEANING

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.

PRECAUTIONS

For further information on our precautions please see the MSDS.

Technical Service and Quality Assurance

All information provided in this leaflet is based on results obtained from our own experience and testing which is given in good faith. The information is provided without guarantee as the user will be deemed to have satisfied themselves independently of the suitability of Conren’s product for their own particular purpose. Conren Limited cannot be held responsible for any errors as a result of any incorrect information being provided.



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