



ResiGard HP

High Performance Solvent Free
Epoxy Coating

DESCRIPTION

ResiGard HP is a four component, solvent-free, epoxy resin high build coating for concrete and steel. It may be applied to produce either a smooth or rough finish incorporating anti-slip grains.

USES

ResiGard HP can be used as floor protection coating in various industries like pharmaceutical, food and beverage, warehouses, bottling units, laboratories, hospitals, kitchens, wet areas, car parks, garages, industrial manufacturing plants, etc.

ADVANTAGES

- Solvent free, no odour during application
- Seamless surface giving complete floor protection
- Resistant to wide range of industrial chemicals
- Long lasting and easily maintained
- Anti-fungal, anti-bacterial and non-toxic
- Good impact resistant
- Available in a wide range of light reflective colours to provide a brighter work area
- Available in a fast set version for cold conditions

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Four: Part A - Base Part B- Hardener Part C- Filler Part D-Colour Pack
Mixed Form	-	Viscous Liquid
Colour	-	Various colours available
Pot Life	ASTM D2471	30-40mins
Recoat Time	-	10-24 hrs
Full Cure	-	7 days
Bond Strength	ASTM D4541	> 1.5 N/mm ² at 7 days
Flexural Strength	BS 6319-3	40 N/mm ² at 7 days
Compressive Strength	BS 6319-2	75 N/mm ² at 7 days
Tensile Strength	BS 6319-7	20 N/mm ² at 7 days
Chemical Resistance	ASTM D543	Resistance to various chemicals like acids, mild alkalis, fuels, grease, petrol, etc
Application Temperature	-	+5°C to +40°C
Service Temperature	-	+5°C to + 70°C



ResiGard HP

SURFACE PREPARATION

Surfaces should be free from grease, oil, chemical contamination, dust, laitance and loose concrete. Appropriate surface preparation equipments such as shotblast, scarifier or grinder must be used to obtain sound substrate. Steel surfaces should be gritblasted to base metal. Surfaces which show any traces of oil must be degreased with a chemical degreaser prior to gritblasting. Cracks, potholes, etc. should be repaired with epoxy putty **ReCon FCE**. Uneven concrete should be leveled to produce a roughened flat surface. Undulated floors can be leveled / repaired using **ResiGard ES / ResiGard RS5 / TekniFloor SLS10** prior to application of **ResiGard HP**. New concrete floors must be at least 28 days old prior to application. Moisture content of concrete floor must be less than 5%. Expansion, control and isolation joints in concrete should be carried through **ResiGard HP** floors and filled with a suitable sealant from the **SealXtra** range.

PRIMING

ResiGard HP can be applied without a primer on sound substrates. If the surfaces are highly porous and rough textured, priming is preferred. Prime the surface with **ResiGard Primer SB / ResiGard Primer SF**. Primer should be brushed into the substrate using a stiff brush or roller and allowed to dry (minimum 12-16 hrs) before the application of **ResiGard HP**. In case of extremely porous substrate, two coats of primer is recommended. Allow the first coat to dry before applying the subsequent coat. The primer coat needs to be completely dry before applying **ResiGard HP**. If the surface is damp, it is preferred to use **ResiGard MB** as primer coat which cures with the inherent moisture and will not adversely affect the adhesion of the topcoat.

MIXING

ResiGard HP supplied in pre-measured components should be stirred individually before mixing. Transfer the colour pack into the base, mix it for a minute, add hardener component into the base and continue to mix with a drill and paddle mixer for two minutes to get a uniform colour. Gradually add the filler and mix until a homogeneous mix is obtained. Scrape the edges and the bottom of the mixing container using spatula and continue to mix for further one minute. Do not mix material in quantities which cannot be applied within the pot life of the product.

APPLICATION

Mixed **ResiGard HP** should be spread on the prepared surface with a notched trowel. Finish off with a spike roller, dense short lambswool roller, brush, etc. to release entrapped air. Do not over work the material to avoid roller/brush marks appearing on the finished surface. First coat should be allowed to dry for a minimum of six hours before application of the next coat.



ResiGard HP

Anti-slip finish (For carparks):

Apply first coat of mixed **ResiGard HP** at a thickness of 200-250 microns. Broadcast the required grade of anti-slip grain (**Conmix Grain-No.1 or 2**) over the wet first coat uniformly within 20-30 minutes. Allow the first coat to dry for a minimum of 4-6 hours before the next coat. Remove loose anti-slip grains before application of the subsequent coat. The second coat needs to be applied at a minimum thickness of 200-250 micron. Upon completion of the last coat of **ResiGard HP** the coating should be left to cure for 24 hours before light traffic is allowed.

LIMITATIONS

At higher temperatures pot life will be reduced. For working in cold climates (<5°C) **ResiGard HP** containers need to be kept in a hot water bath. **ResiGard HP** cannot be applied in areas exposed to direct sunlight.

PACK SIZE

7.5 ltr, 15 ltr and 20 ltr set

COVERAGE

4-5 m²/ltr/coat at 200 microns wft for floors

Actual coverage rates may vary according to the substrate porosity and texture, wastage factors, site and application conditions, etc.

Spread rate / coverage of material will reduce considerably over anti-slip grains than on the plain surface.

GENERAL INFORMATION

Shelf Life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

Cleaning

Clean all equipments and tools with **Conmix Cleaner** immediately after use.

HEALTH and SAFETY

PPE's

Gloves, goggles and suitable mask must be worn.

Precautions

Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.

Hazard

Regarded as non-hazardous for transportation.

Disposal

Do not reuse containers. To be disposed off as per local rules and regulations.

Additional Information

Refer MSDS. (Available on request.)



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TECHNICAL SERVICE

CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.

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