

# BP-ResiGard PU4

Self-Smoothing Chemical Resistant High Performance PU Flooring System

## Description

**BP-ResiGard PU4** is a four component, solvent free, self-smoothing, heavy duty, chemical resistant, impact and abrasion resistant polyurethane flooring system. It provides excellent mechanical and chemical resistance and is available in aesthetically pleasing colours..

## Application Area

- ✓ Mechanical workshops.
- ✓ Industrial Floors & warehouses.
- ✓ Aircraft hangars.
- ✓ Basements and cellars.
- ✓ Garage for light vehicles.
- ✓ Storage rooms.
- ✓ Corridors and halls.
- ✓ Parking areas.
- ✓ Loading platforms.

## Advantages

- ✓ Fast and efficient
- ✓ Durable, high impact resistance
- ✓ Forms a monolithic bond with concrete
- ✓ Provides a dense, impervious, seamless, hygienic floor surface which is easily cleaned
- ✓ Chemically resistant to a wide range of chemicals
- ✓ Solvent free, non-toxic
- ✓ Phenol free, can be used in food processing industry
- ✓ Fast application - minimizes downtime
- ✓ Available in a wide range of colours to enhance the working environment

## Typical Properties

PROPERTY	VALUE
Component	Four: Part A- Bodycoat Base Part B- Bodycoat Hardener Part C- Topcoat Base Part D- Topcoat Hardener
Mixed Form	Viscous Liquid
Colour	Various colours available
Port Life	(60-90 mins) ASTM D2471
Bonding Strength	> 1.5 N/mm <sup>2</sup>
Standard	ASTM D 4541 ASTM D2471 ASTM D543
Chemical Resistance	Resistance to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc (ASTM D543)
Application temperature	+5°C to +40°C
Material Consumption	5.7 – 7.6 kg/m <sup>2</sup> for 3-4 mm
Compressive Strength	60 N/mm <sup>2</sup> @ 28 days
Flexural Strength	30 N/ mm <sup>2</sup> @ 28 days
Tensile Strength	25 Mpa

## Surface Preparation

Substrate concrete or screed should be a minimum of compressive strength 25N/mm<sup>2</sup> and adhesive pull-off strength of minimum 1.5N/mm<sup>2</sup>. Surfaces to receive **BP-ResiGard PU4** should be cleaned by shotblasting, scarifying or other suitable means to remove all traces of oil, grease, loose laitance, curing compounds, bond breaking coatings and other contamination. Weak or loose concrete should be removed completely until a sound substrate is obtained and repaired with **BP-ReCon GP** range of repair products. Upon completion of shotblasting or grinding floor should be vacuumed and cleaned. Concrete floors should not have moisture content more than 5% when tested using Thermo Hygrometer. Expansion, control and isolation joints in concrete should be carried through **BP-ResiGard PU4**.

## Mixing Guidelines

**BP-ResiGard PU4** is supplied in pre-measured packs (Base, Hardener). The base and hardener components should be stirred separately before mixing together. As per application format. mix three minutes to obtain a lump free material. Scrape the edges and at the bottom of the mixing container using a spatula and re-mix for one minute. Care should be taken to avoid additional air entrapment during the mixing process. Do not mix material in quantities which cannot be applied within the pot life of the product.

## Application Guidelines

- ✓ Apply **BP-ResiGard PU4** Bodycoat for leveling and sealing well the substrate porosity
- ✓ Within 14~18 hours; of primer cured, then only apply **BP-ResiGard PU4** Topcoat as
- ✓ Spread the composite matrix with notched squeegee or pin rake and set it to the correct depth of requirement thickness, immediately using spike roller to release the air / bubble.
- ✓ Do not apply temperatures below 5°C and temperatures above 40°C.

## Coverage Rate

5.7 – 7.6 kg/m<sup>2</sup>(appox) for 3-4 mm. Actual Coverage rates may vary according to the substrate porosity and texture, wastage factors, site and application conditions, etc.

## Packaging

Basecoat 30 kg set and Topcoat 12 kg set.

## Colour

Gray, Light Gray, Off-white, Green, Red, Yellow, Royal Yellow, etc.

## Storage & Shelf-life

12 months from date of manufacture when stored

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under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

## Limitations

At higher temperatures pot life will be reduced. For working in cold climates (<5°C) **BP-ResiGard PU4** containers need to be kept in a hot water bath. **BP-ResiGard PU4** cannot be applied in areas exposed to direct sunlight.

## Cleaning

Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

## Health and Safety

During use, avoid inhalation of the dust and contact

with the skin or eyes. Gloves, goggles and suitable mask must be worn. Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. Regarded as non-hazardous for transportation. Do not reuse containers. To be disposed off as per local rules and regulations.

## Quality & Care

Conpacmix (BD) Ltd acquired German technology for an updated production facility and set up a state of the art laboratory facility for conducting regular quality assessments on raw materials procured and finished products. Process from procurement of raw materials to finished products, are managed by qualified and experienced engineers, chemists and technicians.



**Note:** Field service where provided does not constitute supervisory responsibility. Suggestions made by **Conpacmix (BD) Ltd.** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Conpacmix (BD) Ltd.**, are responsible for carrying out procedures appropriate to a specific application.

Manufacture:

