

# Creative PolyFloor-4K

Heavy duty, Chemical Resistance Polyurethane Resin Floor Finish

## DESCRIPTION

**Creative PolyFloor-4K** is High-density polyurethane resin floor with smooth, Seamless finish, provides exceptional chemical, thermal and mechanical resistance- ideal for dry industrial environments.

## SCOPE OF USES

**Creative PolyFloor-4K** is suitable for use on floors in warehouses, laboratories, hospitals, car parks, food industries, pharmaceutical industries, power & textile industry. It provides excellent chemical resistance, abrasion resistance and improved aesthetics.



## TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component		Four parts: 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	40 mins +/- 10
Recent Time		Min 5 hrs and Max 24 hrs
Full Cure		7 days
Bond Strength	ASTM D4541	>1.5 N/mm <sup>2</sup> at 7 days
Flexural Strength	BS 6319-3	20 N/mm <sup>2</sup> at 7 days
Compressive Strength	BS 6319-2	50 N/mm <sup>2</sup> at 7 days
Tensile Strength	BS 6319-7	15 N/mm <sup>2</sup> at 7 days
Chemical	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

## KEY ADVANTAGES

- Excellent chemical resistance
- Good abrasion resistance
- Suitable for application by brush, spray or roller
- Available in various colours with smooth and anti-slip textures
- Excellent adhesion to a variety of substrates
- Easy to maintain & long lasting
- Provides dust free surface
- Polyurethane resin

## SURFACE PREPARATION

Surfaces to be coated must be clean, dry, sound, free of mould release agents, bond breaking coatings, curing compounds or any other form of contamination that may affect the adhesion of the polyurethane resin coating to the substrate. Surface preparation must be done using appropriate methods like grinding or wire brushing and vacuumed. New cementitious surfaces should be at least 28 days old and have a moisture content less than 5% prior to application.



## PRIMING

Ensure the substrate is sound, clean, and dry. Remove all dust, oil, and loose materials. Apply PU or epoxy primer using brush or roller to achieve full surfaces, apply a second coat of premix allow curing for 6-8 hours or until tack-free before applying **PolyFloor-4K**.

## MIXING

**Creative PolyFloor-4K** is supplied in pre-measured packs. Base and hardener should be stirred separately before mixing. First transfer the colour pack into the base and mix for a minute. Then add hardener component and mix using a slow speed drill machine for two minutes to get a uniform colour. Then add the filler and mix until a homogenous mix is obtained.

## APPLICATION

The mixed material on to the primed surface and spread evenly using a notched trowel or rake to desired thickness Typically (2-4 mm), then use a spiked roller immediately after spreading to remove entrapped air and ensure a smooth finish. Full cure 7 days.

## LIMITATION

- At higher temperatures pot life will be reduced,
- For working in cold climates (<5°C) **Creative PolyFloor-4K** containers need to be kept in a hot water bath. **Creative PolyFloor-4K** cannot be applied in areas exposed to direct sunlight.

## PACK SIZE

20 kg Set	Part A	PU Resin 2.5 kg
	Part B	Hardner 3.0 kg
	Part C	Filler 14 Kg
	Part D	Colle Pack 0.5 kg



## 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 equipment and tools with water 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)

## COVERAGE

4mm: 8-10 kg/m<sup>2</sup> and 6mm: 12-14kg/m<sup>2</sup> coverage rates can vary according to the substrate porosity and texture. For anti-slip finish coverage of second coat will be considerably reduced. Conduct field trial to ascertain actual coverage.

## TECHNICAL SERVICE

Creative Chemical Company technical services are available on request for onsite support to assist in the correct use of its products.