



KENPOXY 230

Self smoothing solvent free, epoxy overlay system for concrete floors

Description

KENPOXY 230 is a colored overlay, evenly smoothing, epoxy liquid system able to provide continuous protection for surface applied on at thicknesses from 2.0-4.0mm. For higher thicknesses use KENPOXY 240. The cured layer gives a solid, colorful, glossy surface. KENPOXY 230 can also be applied to glazed and terrazzo tiles, steel and timber, after special treatment to these surfaces. For applications other than to concrete, please contact your KENBRO representative.

Primary uses

KENPOXY 230 has excellent wear and abrasion resistance to floors subjected to high traffic areas.

The smooth, dense and high gloss finish is ideal for situations requiring a hygienic, bacteria free, easily cleanable surface.

The product also offers good general resistance to a wide range of corrosives chemical, but as in individual cases of chemical exposure a full analysis of operating conditions is required.

KENPOXY 230 most suitably applied in the following industries:

- Food production and processing
- Beverage production
- Pharmaceutical factories and laboratories.
- Engineering workshops
- Showrooms
- Industrial and commercial cold kitchens.
- Garages and Car parks.
- Schools, hospitals and hotels

NB above examples are suitably recommended but not limited, individual cases can be discussed & advised.

Advantages

- Good wear and abrasion resistance
- Easy application
- Smooth and high gloss finish
- Easily cleaned and Maintained
- General chemical resistance
- Colorful - Adds an aesthetic look to the floor

Packaging

KENPOXY 230 is supplied as a 4-component pack, color included. Weight 38Kgs.

Typical physical properties

Properties listed are only for guidance and are not a guarantee of performance

Laboratory tests carried out at 25°C	
Pot Life	30mins
Cure Time	24 hours
Compressive strength (ASTM C579-93)	
1 day	35 N/mm ²
3 days	60 N/mm ²
14 days	75 N/mm ²
Density of mixed material	1.79kg/m ³
Flexural strength (BS 6319 Part 3)	30 N/mm ²
Tensile strength (BS 6319 Part 7)	17 N/mm ²

Guide to application Surface preparation:

The preferred method for surface preparation of concrete is captive blasting, which gives a well prepared laitance free, vacuum cleaned surface.

Prior to application KENPOXY 230 should be protected from extremes of temperature, which may cause inconsistent workability, finish and cure times.

Sealing:

uneven or deeply potted areas can be repaired with KENPOXY 230 filled with additional aggregate and leveled off.

It is very important to seal the concrete surface before application of KENPOXY 230, to prevent air from the substrate rising through the overlay layer of KENPOXY 230 while it sets.

Seal the concrete KENPOXY PRIMER ensuring 100% of the area is suitably sealed. On porous surface a repeat coat is recommended.

Apply the primer sealer to the prepared dust free surface with a medium pile roller or brush, at the rate of 6-8m² per liter depending on the surface of the concrete.

Equipment

Vacuum recovery shot blasting machine
Masking tape / polythene sheets
Trowels
Slow speed drill with suitable paddle
Brushes or short nap hair rollers
Industrial vacuum Scarifier
Grinder
Overalls
Lighting
Spiked roller
Pin screed
Spiked shoes

Mixing:

Pour the hardener into the base, with the color pack and, using a suitable drill and paddle, mix the components together until a uniform color is achieved. Mixing should be for a minimum of one minute.

With the mixer still running, slowly pour the KENPOXY 230 powder and mix until the mixture is smooth and lump free. Always keep the mixing time constant for all batches, to ensure a uniform color of the applied overlay.

Laying

Pour the mixed material onto the primed and sealed surface, and spread to the required thickness using a pin screed, notched trowel or steel float. As soon as the material has been spread to the required thickness, the applied material should be rolled with a spiked roller to release entrapped air and remove trowel marks.

Rolling should be done until all air is released and a uniform color is obtained. The operator should wear spiked shoes when using the spiked roller so that he can walk on the wet material. Rolling should cease before the KENPOXY 230 begins to gel.

Storage

Shelf life is up to one year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Note

Site service, where provided, does not constitute supervisory responsibility. For More information contact your local KENBRO representative.

KENBRO reserves the right to investigate the true cause of any problems encountered, or if the material does not perform to the expected level.

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