

A SLIP RESISTANCE, HEAVY DUTY POLYURETHANE MOTAR

Description

Kosflor HD-CPU is a thermal shock polyurethane mortar screed applied in thickness from 6-12mm floor coating. Seamless, high mechanical properties, high chemicals, anti-slip, heat and cool resistance with texture matt finish.

Feature

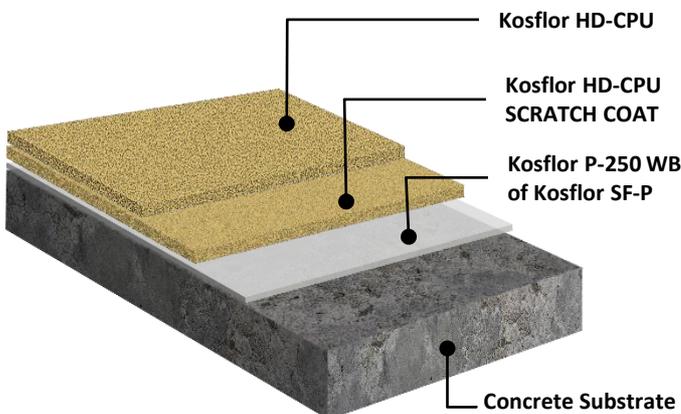
Area use for GMP, HYGIENIC, HACCP industrial floors, for wet food processing, beverage, seafood, meat, kitchen, cold storage, freezer (cool room), palm oil processing and wet packaging plants.

Benefits

- ❖ Hygienic hot water steaming clean.
- ❖ Hard wearing, food abrasion resistance.
- ❖ High chemical resistance against alkalis, acids and organic solvent.
- ❖ High mechanicals and impact resistance.
- ❖ Temperature service with range between -40°C to 150°C
- ❖ Resist fungi, mildew and bacteria growth.
- ❖ Solvent free. Odorless.
- ❖ After cured, non-cytotoxic response.
- ❖ Anti-slip for safety, oily floor.

Colour & Texture

- Standard Color – Matt
- Exposed to UV may occur color change



Technical Data

Density (28C) g/cm ³	: 2.2g/ml
Tensile Strength	: 25Mpa
Compressive strength	: 28 days : 14 days
BS-6319:Part 21983	: 52.0N/mm : 48.0N/mm
Adhesive strength	: >2.0Mpa (Concrete Failure)
Flexural Strength	15Mpa
Service temperature	: at 6mm to 9mm: 15°C ~ 130°C (max) at 9mm to 12mm: - 40°C ~ 150°C (max)
Shore D hardness	: 80 ~ 85
Cytotoxicity (2.4 or less)	: below < 0.5
ASTM D 4060 – 10 Taber Abraser Wear Index in mg/1000 revolutions /1kg	: 3.8mg
BS 6920: Part 1 :2000 clause 6 Growth or Aquatic Microorganisms	: <2.39 or less
Pot life (working time)	: 15°C : 30min 25°C : 25min 30°C : 22min
Material consumption	: 2.2kg/m ² @1mm
Recoating time (28°C)	: within 14 to 18 hours
Self life & storage (unopened and in good conditions Temperature < 30°C)	: Part A : 9 months Part B : 9 months Color Filler C-14 : 9 months Filler HD : 18 months
Packaging 32KG/set	: Part A : 3 KG Part B : 3 KG Color Filler C-14 : 14 KG Filler HD : 12 KG
Curing time	15°C : 25°C : 32°C
Human traffic	: 36hrs : 30hrs : 24hrs
Light traffic	: 48hrs : 36hrs : 30hrs
Fully chemicals cure	: 7days : 6days : 5days

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Substrate Requirement & Preparation

Concrete substrate must be clean, free of laitance and contaminants. It must be sound and firm with a compressive strength of 25 MPa and bond strength of 1.5 MPa minimum.

The concrete substrate must be dry and waterproofed against negative ground water pressure. The moisture content of concrete of concrete substrate must be less than 4%. If the moisture content of the concrete of the concrete substrate exceeds 7%, apply an epoxy mortar of high compressive strength (>80MPa) a 4 to 5mm thickness as a moisture barrier, allow to cure over-night before the application of **Kosflor HD-CPU**.

Prepare the concrete substrate surface by captive shot blasting or mechanical grinding, repair damaged area and patch up cracks and holes using a patching compound. Cut 3mm x 3mm grooves around the perimeter of the floor and at end points(eg: plinth, column, drains etc..)

Application

Store materials in a sheltered area away from direct sunlight. Materials shall be conditioned at temperature close to the site conditions.

Applying Primer:

Kosflor P-250 WB was the recommended primer.

Empty Components A and Components B into Clean Mixing Container. Start mixing using a mechanical mixer at low speed (approx. 500rpm) for 1 minutes or until homogeneous. Transfer the mixed material into another clean container and mix for 1 minute.

Pour the mixed primer onto the prepared floor, spread with a squeeze and back roll with a roller. Allow 14-18 hours cure before proceeding to next stage of application.

If the concrete surface is porous, apply a second coat of primer to ensure the concrete surface is sealed to avoid the rick of out-gassing.

Applying KOSFLOR HD-CPU

Shake Part A well before emptying into a clean mixing container together with Part B. Start mixing using a helical mixer at low speed (500rpm) for approximately 5 seconds. With mixer running add component C (Color Filler) and mix for 30 second or until homogeneous gradually increasing the mixing speed approximately 750 rpm. Mix for 3 minutes moving the mixer from top to bottom and side to side to ensure all filler is properly dispersed or until homogeneous.

Transfer the mixed material to a clean mixing container and mix for 1 minute.

Pour the mixture onto treated surface and spread in with a notched trowel or pin rake set to the nominated thickness and spike roll immediately to release the entrapped air from mixing. The application process must be carried out within the pot life (working time approximately 20 minutes)

Applying KOSFLOR MF-CPU Scratch Coat (optional)

A Scratch coat of **Kosflor MF-CPU** at 1mm thickness may be applied as a leveling layer to improve the sub-floor surface if necessary or for situation subject to extreme service temperature (consult Kossan Paint Technical).

Pour the mixture onto the surface and spread with the straight edge trowel press hard against the surface. Allow 14-18 hours cure before applying **Kosflor HD-CPU** at the nominated thickness as above.

Chemical Resistant

CHEMICAL	CONCENTRATION	TEMP (°C)	RESISTANCE
Acetic Acid	10%	28°C	Excellent
Beer	-	28°C	Excellent
Blood	-	28°C	Excellent
Citric Acid	20%	28°C	Excellent
Detergents-acidic	All	28°C	Excellent
Detergents-alkaline	All	28°C	Excellent
Fats-animals and vegetable	-	28°C	Excellent
Fish oils	-	28°C	Excellent
Lactic Acid	5%	28°C	Excellent
Oil-diesel	-	28°C	Excellent
Oil -Fuel	-	28°C	Excellent
Oil-Mineral	-	28°C	Excellent
Sugar	100%	28°C	Excellent
Sodium hydroxide	50%	28°C	Excellent
Sodium Sulphate	All	28°C	Excellent

* Contact Technical Department for further information

Temperature Conditions of Application

- Do not apply when the relative humidity exceeds 90% of when the surface temperature to be coated is lower then dew point.
- Do not apply when temperatures are below 5°C and temperatures above 40°C

Maintenance and care

Regular Clean and maintenance will prolong the life of **Kosflor HD-CPU** floor topping. Regular cleaning using a single or double headed rotary scrubber with alkaline detergent is recommended.

Health & Safety

Safe handling of **Kosflor HD-CPU** is given in the Safety Data Sheet. Suitable clothing and eye protection gear shall be worn for precaution purpose. The application site shall have good ventilation. If not, a portable exhaust fan shall be used.

Important Note

KOSSAN PAINT product are warranty against defective materials. Due to different substrate and working conditions, no guarantee of an application result or any liability claims. The users are required to have a test ahead based on their intended use.