



BEST CON PU CRETE

Four-component polyurethane-cementitious flooring system

PRODUCT	SYSTEM	PACK SIZE	ORIGIN
BEST CON PU CRETE	4 components (A+B+C+D)	20 kg set	Malaysia

PRODUCT DESCRIPTION

BEST CON PU CRETE is a four-component polyurethane flooring material intended to form a seamless, hard-wearing floor finish on properly prepared concrete. It is a high-performance, polyurethane-based cementitious flooring system designed to provide a durable, seamless, and hygienic surface. It offers excellent resistance to abrasion, impact, chemicals, moisture, and thermal shock, making it suitable for demanding industrial and commercial environments such as food processing plants, pharmaceutical facilities, commercial kitchens, warehouses, and manufacturing areas.

TYPICAL APPLICATION AREAS

Potential applications include food and beverage production areas, commercial kitchens, workshops, warehouses, manufacturing spaces, laboratories, service corridors and other demanding environments where a seamless, hygienic and easy-to-clean floor is required. Suitability for hot-water washing, steam cleaning, thermal shock, cold rooms or particular chemicals depends on the actual formulation and installed thickness.

FEATURES & BENEFITS

- Seamless, joint-free finish across the coated field
- Designed for demanding floor environments when installed to the approved system specification
- Potential for good abrasion, impact and chemical resistance typical of polyurethane-cementitious flooring
- Dense, easy-to-clean surface
- Pre-packed four-component kit for controlled on-site mixing
- Grey colourant shown in supplied packaging; other colours require confirmation.

TECHNICAL DATA

Property	BEST CON PU CRETE information	Status
Product type	Four-component polyurethane flooring system; cementitious/hybrid nature to be confirmed	
Components	A: Topcoat/base; B: Hardener; C: Aggregate; D: Colourant	
Total pack size	20 kg complete set	
Finish / colour	Grey colourant shown; confirm approved shade and finish	Label-based
Abrasion Resistance	120 mg loss per 1000 cycles	
Compressive Strength	41 Mpa	41 Mpa
Pot life / working time	12-15 minutes @ 27°C	12-15 minutes @ 27°C
Foot traffic / full cure	Surface Dry: 4.5 hours Hard Dry: 18 hours Full Cure: 4.5 days	
Surface Resistivity	Surface Resistivity 25×10^{11}	
Storage / shelf life	Store sealed in original packaging in a dry, shaded area; follow printed label limits and expiry date	

SUBSTRATE PREPARATION

Concrete must be structurally sound and free from laitance, dust, oil, grease, curing compounds, paint and other bond-inhibiting contamination. Mechanically prepare by captive shot blasting, scarifying or diamond grinding as suitable for the substrate and system, then vacuum thoroughly. Remove weak concrete and repair defects using compatible repair materials. Provide appropriate damp-proofing or moisture mitigation where required.

APPLICATION CONDITIONS

Record substrate and ambient temperature, relative humidity and dew point before application. Avoid condensation and protect the installation from rain, water, excessive humidity and rapid temperature changes. The substrate temperature must meet the manufacturer's range and remain sufficiently above dew point. Do not apply when environmental conditions are outside the approved product instructions.

MIXING PROCEDURE

Use only a complete, correctly proportioned kit. Confirm component labels and batch numbers before opening. Mix components in the exact order and for the time specified in the approved method statement, using a suitable low-speed mechanical mixer and paddle. Scrape the sides and base of containers to ensure uniform mixing. Add aggregate and colourant only as directed. Do not part-mix kits, alter ratios, or add water, solvent or other materials unless the manufacturer expressly authorises it in writing. Once mixed, place the material promptly within its verified working time.

APPLICATION PROCEDURE

- 1. Priming / scratch coat:** Apply the compatible primer or scratch coat specified for the system and substrate condition. Respect the approved recoat window.
- 2. Placement:** Discharge the mixed material onto the prepared area and spread to the specified thickness using the appropriate trowel, rake or screed tool. Work continuously and maintain a wet edge to avoid visible joints.
- 3. Finishing:** Finish using the tool and method specified by the manufacturer. Use a spiked roller only if approved for the product and before the material begins to set.
- 4. Curing:** Protect from dust, water, condensation, traffic and chemical exposure during curing. Observe the approved minimum reopening and full-cure times.

SYSTEM BUILD-UP

Layer	Function	Requirements
Concrete substrate	Load-bearing base	Sound, clean, mechanically prepared and within moisture limits
Compatible primer / scratch coat	Adhesion and substrate preparation	Product, thickness and coverage as approved
BEST CON PU CRETE	Four-component polyurethane floor topping	2mm to 4mm thickness

JOINTS, DETAILS & LIMITATIONS

Carry all movement and expansion joints through the flooring system and seal with a compatible joint sealant. Do not bridge active joints with a rigid coating. Terminations, drains, coves, channels and thresholds require project-specific detailing. The flooring must not be treated as a substitute for a damp-proof membrane unless the manufacturer specifically approves that use. Resistance to specific acids, alkalis, solvents, oils, fats, hot liquids, steam and thermal cycling must be verified for the actual concentration, temperature and contact duration.

PACKAGING & COMPONENT IDENTIFICATION

Component	Label shown in supplied image	Verification
Part A	PU Crete Topcoat 2.86 kg	PU Crete Topcoat 2.86 kg
Part B	PU Crete Hardener 2.86 kg	PU Crete Hardener 2.86 kg
Part C	PU Crete Aggregate 14.12	PU Crete Aggregate 14.12
Part D	PU Crete Colourant 0.50 kg	PU Crete Colourant 0.50 kg

CLEANING & MAINTENANCE

Remove uncured residues using only the cleaner recommended by the manufacturer and in accordance with the SDS. Once cured, clean with compatible detergents and avoid unapproved aggressive chemicals. Establish a maintenance programme based on traffic, contamination and cleaning methods. Inspect joints and terminations periodically and repair damage promptly using compatible materials.

HEALTH & SAFETY

Read the current Safety Data Sheet for every component before use. Wear chemical-resistant gloves, safety goggles, protective clothing and any respiratory protection required by the SDS and site risk assessment. Avoid skin and eye contact; resin, hardener and pigments may cause irritation or sensitisation. Ensure appropriate ventilation, prevent spills entering drains, and dispose of residues and packaging in accordance with local regulations.

QUALITY CONTROL CHECKLIST

Before installation: verify batch numbers and expiry dates; confirm the complete component weights and mixing sequence; approve the substrate and moisture condition; record temperature, humidity and dew point; check primer compatibility; and agree the thickness, finish and joint details. During installation: record mixing times, batch sizes, area covered and environmental conditions. After installation: protect the floor and release it to service only after the approved cure period.