

MC-DUR 260

Polyurethane mortar coating offering high chemical resistance suitable for squeegee application.

PRODUCT DESCRIPTION: MC-DUR 260 is a 4-component polyurethane trowel applied in thickness of 6-12mm screed. For industrial application and repairing system in matt anti-skid finish offering versatility in performance, aesthetics and economics.

PRODUCT PROPERTIES:

- Anti-skid surface for safety.
- Resists bacterial growth; fungi, mold and mildew.
- Easily cleaned and maintained smooth seamless surface.
- High-density systems with maximum wear, abrasion and impact resistance.
- User-friendly, no solvent odour during installation.
- One of the fastest "turnaround time" polymer modified product which reduces cost.
- High temperature resistance up to 130°C at 12mm thickness.
- Seamless without joints for optimum sanitation and hygienic finish.

AREAS OF APPLICATION:

- Ideal area of application includes:
 - Hygienic floor for kitchen, wetfood, beverage processing and packaging plants.
 - Chemical resistance flooring for chemical process, containment area and wash down rooms.
 - Thermal shock resistance flooring for freezers, refrigerators, and oven installed spaces.
 - Mechanically durable flooring for loading docks and warehouses.
 - Anti-skid finish for safety in oily / slippery service condition.

APPLICATION ADVICE:

Surface requirement & preparation:

- Suitable substrates are concrete or modified polymer screeds with a minimum compressive strength of 25N/mm² and pull-off strength of 1.5N/mm².
- Substrate to be coated must be clean, free from dust, oil, water, paint residues, loose constituents or any contaminants. Make use of a concrete surface planer, grit blasting, surface grinding or other mechanical means until a flat, rough profile is evident. Prepare grooves, 8mm(wide) x 8mm(deep), at all edges, bay joints columns, doorways, and drains to facilitate mechanical bonding.

Mixing: Shake the containers of components A and B well before use. First put component A into a clean mixing vessel and stir in component D MC-DUR Color (pigment) and stir. Then add component B and continue stirring. Use a slow speed mixer and stir the mixture for about 1 minute until a homogeneous mixture is obtained, without any streaks of color. Then add the aggregate (component C) to the pre-mixed plastic mixture and continue stirring until the mixture is homogeneous. It is necessary to use a mixer to mix the plastic components with the aggregate together. Mixing time depends on the temperature of component C. At a temperature of 18 - 22°C, mixing time can be up to 3 minutes.

Application:

- Apply MC-DUR 260 within its pot life.
- Spread the composite matrix to thickness of 6-12mm and consolidate with steel trowel to the correct depth as desired. Immediately release any trapped air by spike rolling.

Temperature: MC-DUR 260 should not be applied on material or floor temperatures below 10°C. Temperatures should not fall below 5°C in the first 24hours after application. MC-DUR 260 is not designed for immersion.

Service temperatures:

- At 6mm of thickness, it can withstand temperatures ranging from -25°C to +100°C.
- At 9mm of thickness, it can withstand temperatures ranging from -35°C to +115°C.
- At 12mm of thickness, it can withstand temperatures ranging from -45°C to 130°C.

Curing:

	25°C	35°C
Foot traffic. (hr)	10	8
Light traffic. (hr)	24	18
Full traffic. (hr)	48	24
Full cure. (days)	7	5

Substrate movement:

All moving joints must be carried through **MC-DUR 260** and properly sealed. Construction joints and cracks may be covered but if substrate movement occurs, **MC-DUR 260** will reflect the cracks.

Chemical resistance: **MC-DUR 260** will resist spillages of :

- Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric.
- Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration.
- Most dilute and concentrated organic acids.
- Fats, oil and sugar.
- Mineral oils, kerosene, gasoline and brake fluids.
- Most organic solvents.

Cleaning: Clean all tools with acetone, xylene or other solvents before the material hardens. Small unreacted Part B in container is to be decontaminated with a 5% solution of washing soda (sodium carbonate) prior to disposal. After material has set it is virtually impossible to get off and will only wear off over time.

Maintenance: Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

TECHNICAL DATA:

Characteristic	Unit	Value	Comment
No. of Components		4	
Shore D hardness		80 - 85	ASTM D2240
Estimated Coverage	kg/m ² /6mm	12.6	
	kg/m ² /1mm	2.1	
Mixing Ratio	By weight (kg)	2.85 : 3 : 26 : 0.18	Part A : Part B : Part C : Part D
Density	kg/mm/m ²	2.1	
Compressive strength	N/mm ²	52 - 58	ASTM C942
Tensile strength	N/mm ²	6 - 7	ASTM D638-14
Flexural strength	N/mm ²	14 - 16	ASTM C348 : 2002
Tensile adhesion strength	N/mm ²	Concrete failure > 1.5	EN 1542
Temperature resistance	°C	130	
Pot life	minutes	10	At 30°C
		15	At 20°C

PRODUCT CHARACTERISTICS:

Color	Red; Green; Blue; Dark grey; Light grey; Yellow.
Storage	Unopened in dry conditions between 10°C - 32°C.
Shelf Life	Component A, B and D: 12 months; Component C: 8 months.
Packaging	Component A: 2.85 kg canister
	Component B: 3 kg canister
	Component C: 26 kg bag
	Component D: 0.18 kg bag

Safety instructions: Please note the safety information and advice given on the packaging labels and safety data sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

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