

MC-DUR PowerCoat

Heavy-duty PU/cement hybrid floor coatings for extreme loads

















MC-DUR PowerCoat Extreme resistance for industrial floors

Whether it's cleaning with superheated steam, mechanical shock from forklift trucks or impact from falling tools – day in, day out, industrial floors have to withstand a multitude of extreme – and often concurrent – stress loads. However, conventional purpose-built floors are usually designed with a focus on one predominant performance feature, so they are not able to provide the wider range of performance characteristic.

MC-DUR PowerCoat, on the other hand, offers a durable solution covering all the usage-related stress loads to which industrial floors can become exposed. This PU/cement hybrid floor system offers exceptionally high resistance to chemical attack, mechanical impact and thermal shock. Moreover, it has been specifically designed to permanently withstand a variety of such extremes occurring simultaneously.



MC's PU/cement hybrid floor coating system

The MC-DUR PowerCoat is a four-component system based on a polymer emulsion consisting of an aqueous poly emulsion and a polymeric hardener component. Mixing with the mineral component (powder) creates a self-levelling coating or mortar that can be worked into an extremely robust and durable PU/cement hybrid floor. The fourth component is the colour, which is simply added to the mixture on site in the form of a paste to achieve the desired shade.

MC-DUR PowerCoat 200

Primer and sealer

MC-DUR PowerCoat 240

Self-levelling PU flow coating offering high chemical resistance

MC-DUR PowerCoat 280

PU mortar coating offering high chemical resistance suitable for squeegee application



Colour paste, available in Red, Green, Yellow and Grey





Areas of application Highly resistant even under the toughest conditions

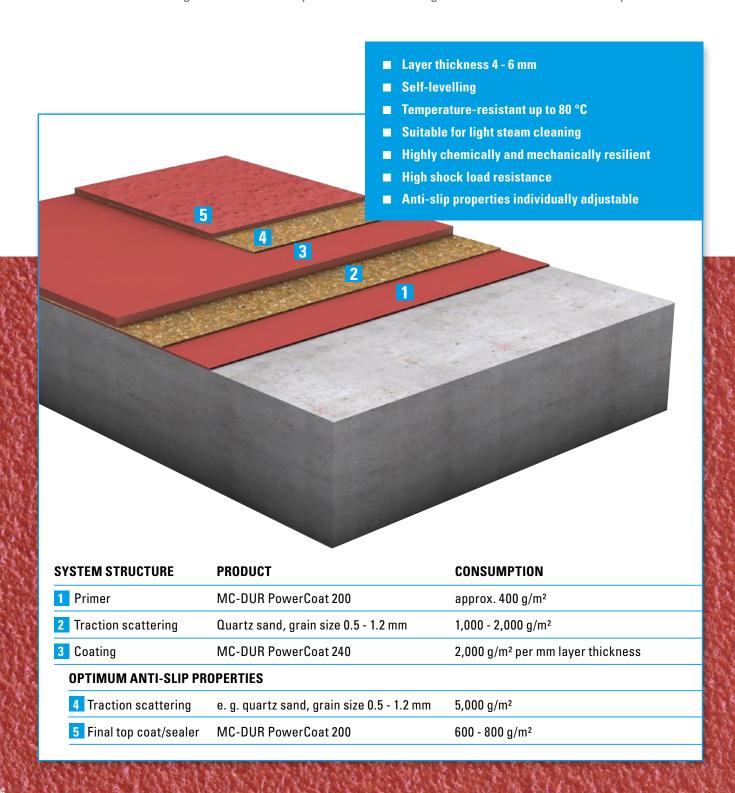
The profile of properties characterising the products of the MC-DUR PowerCoat range means they are particularly suitable for areas of application where one or several simultaneous major forms of attack or stress load occur. In the overview table below you will find examples of some areas of application in which MC-DUR PowerCoat is particularly suitable as a durable industrial flooring solution.



	Branch of industry	System component	Exposure	
	Wine production	Filling lines	Chemical attack from organic acids; water, chemical cleaners	
		Tanks	Thermal stress from sterilisation with saturated steam	
	Confectionery production	Compounding areas	Corrosion of cement-bound building materials by sugar (e. g. tile joints), hot water, sugar solutions at high temperatures	
	Sugar refining	Production areas	Corrosion of cement-bound building materials by sugar (e. g. tile joints), hot water, sugar solutions at high temperatures, mechanical loading	
	Jam and marmalade production	Fruit and ingredients processing, sterilisation, loading	Fruit acids, sugar solutions, hot water and chemical cleaners, industrial trucks	
	Fruit juice production	Production, filling	Fruit acids, sugar solutions, hot water and chemical cleaners, industrial trucks	
	Baking	Oven zone, dough preparation	Hot oven trolleys, point loads from dough troughs	
	Convenience products	Oven zone, cooking areas in industrial kitchens	Extreme temperatures, thermal shock (e. g. when emptying boiling pans), point loads	
	Services	Truck washing systems	Trucks (steering and braking forces), cleaning agents, hot water, chemical attack from automotive media	
		Internal cleaning for tank and silo vehicles	Chemical attack from cargo residues, thermal shock from cleaning with hot water, steering and braking forces, shock loads from hose couplings	
	Mechanical workshops, general engineering	Repair workshops	Exposure to flying sparks during welding and cutting work, mechanical wear due to metal chips and high individual part weights, chemical attack from various auxiliary materials (cold cleaners, lubricoolants, etc.)	
	Basic chemical facilities	Operation, repair and cleaning areas, e. g. for heat exchangers	Chemical attack from leakages (e.g. clearance losses from pumps), concrete corrosion due to cleaning with saturated steam, high temperatures; point loading by industrial trucks and shock loads from falling tools during maintenance work	
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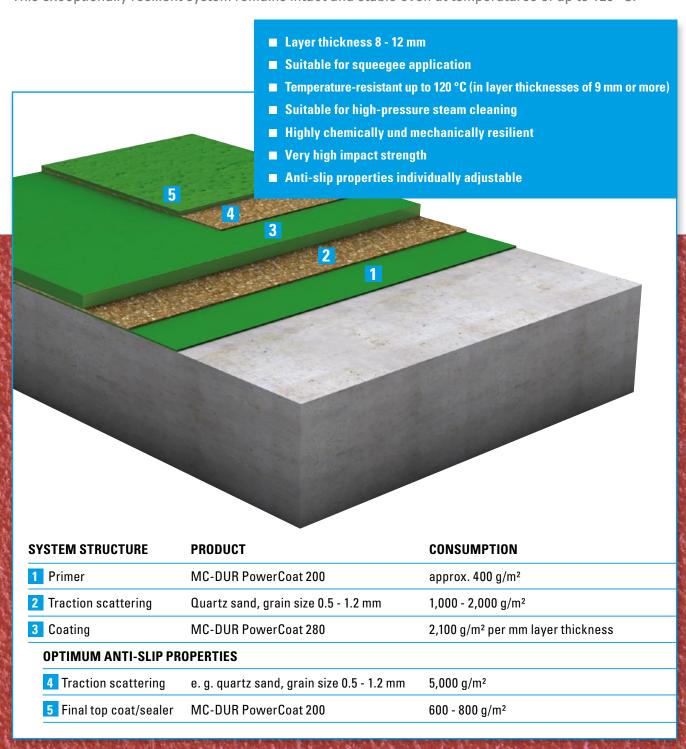
MC-DUR PowerCoat 240 Heavy-duty flow coating

Self-levelling PU/cement hybrid floor coating in a layer thickness of 4 - 6 mm. The system remains fully functional over the long term under heavy mechanical loading and thermal stress values up to 80 °C.

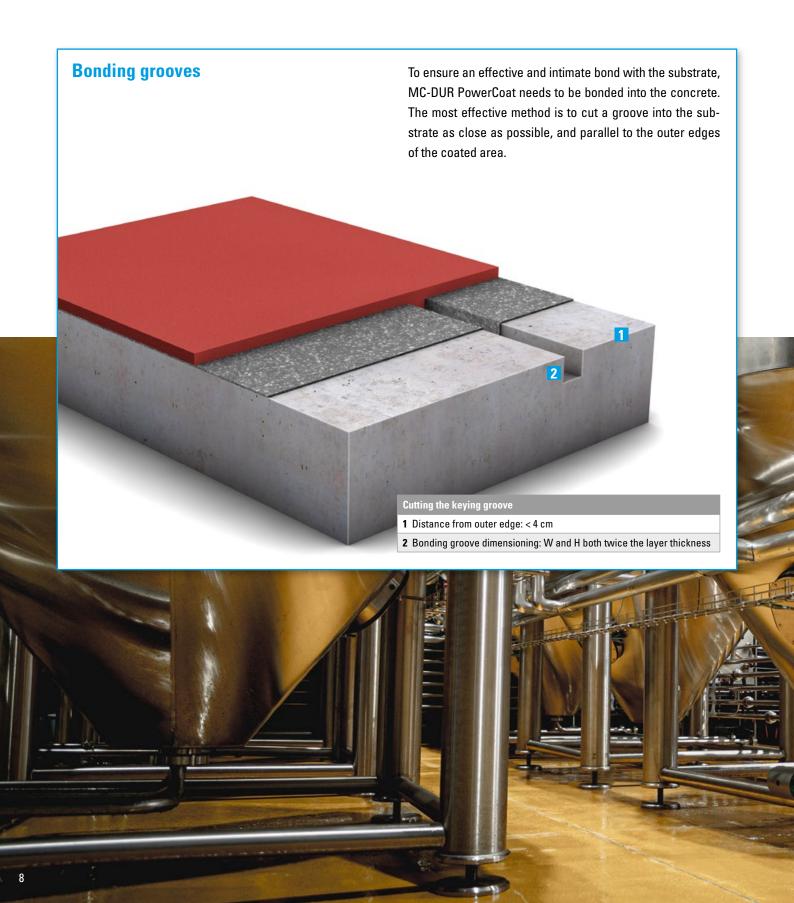


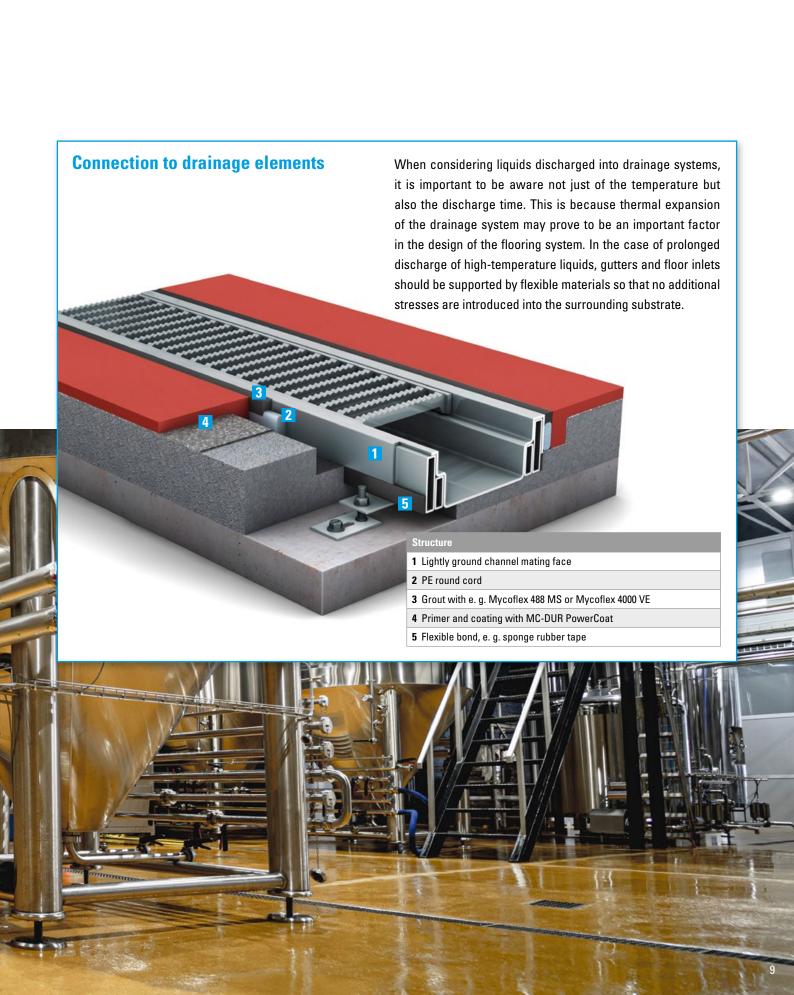
MC-DUR PowerCoat 280 Exceptionally heavy-duty floor coating mortar

In the case of particularly high thermal and mechanical resistance requirements, MC-DUR PowerCoat 280 with layer thicknesses starting at 8 mm offers precisely the maximum durability and reliability needed. This exceptionally resilient system remains intact and stable even at temperatures of up to 120 °C.



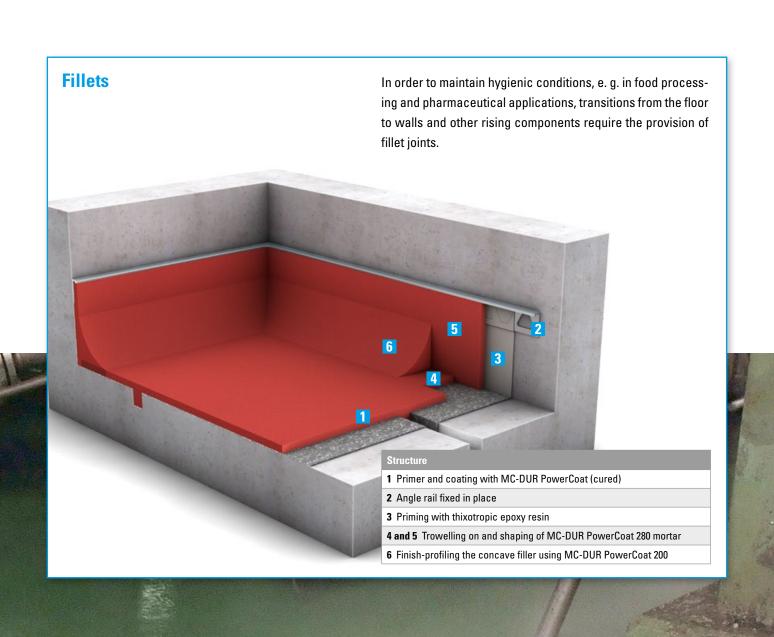
Application details





Application details





MC-DUR PowerCoat

Heavy-duty PU/cement hybrid floor coatings for extreme loads

- High mechanical resilience
- High chemical resistance
- High temperature resistance
- Anti-slip properties individually adjustable

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