

Urethane Mortar (Urethane Cement) Floor System

Thermal-shock-rated flooring for hot wash-down and heavy-duty process areas

System overview

A cementitious urethane system troweled on thick enough to move with the slab through rapid temperature swings - the floor run by breweries, dairies, commercial kitchens, and processors worldwide. Where standard epoxy eventually loses its bond to daily hot wash-down, steam cleaning, or freezer-to-kitchen thresholds, urethane mortar is the system built for that abuse, and it tolerates slab moisture conditions that would blister an epoxy.

Typical system build-up

Layer	Description
Preparation	Diamond grinding with keyed detail cuts at edges, drains, and terminations; crack and joint repair
Body	Troweled cementitious urethane mortar body coat
Texture	Slip-resistant aggregate broadcast graded to the zone
Top coat	Chemical-resistant grout/top coat per the manufacturer's system
Cove base	Integral urethane mortar cove at wash-down wall lines

Typical applications

- Hot wash-down zones, kettle and fryer lines
- Breweries, dairies, and food processing floors
- Dish pits and commercial kitchens
- Freezer thresholds and thermal-cycling doorways
- Loading docks with impact and wheel traffic

Surface preparation

Urethane mortar demands aggressive mechanical preparation: diamond grinding plus keyed detail cuts at all edges, drains, and transitions so the system locks into the slab. Deteriorated concrete is repaired or replaced first.

Project notes

- Costs more than epoxy - we spec it only in the zones that need it and quote standard epoxy everywhere else, often on the same floor.
- Commonly installed zone-by-zone in phases around production.

Final system selection, thicknesses, and products are specified per project from the manufacturer's current technical data sheets after a site walkthrough and slab moisture readings. This sheet is a general guide, not a quotation or engineering document.

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