

# CONFLOOR 5300

## Three Components Polyurethane Cement Flooring



### PRODUCT DESCRIPTION

Confloor 5300 is a three-component, self-leveling urethane flooring system that meets VOC compliance standards. Applied as a wet slurry mortar, it spreads easily and levels itself, creating a smooth surface. Resistant to extreme temperatures and impervious to bacterial growth, it's ideal for various settings including breweries, wineries, pharmaceutical plants, commercial kitchens, restaurants, processing areas, and loading bays. With outstanding UV and chemical resistance, as well as durability against wear and abrasion, Confloor 5300 is commonly employed in areas with light to heavy foot traffic.

### ADVANTAGES

- Resistant to extreme hot and cold changes in temperature
- Withstands severe heavy traffic
- Non slip when wet
- Can be broadcast
- Does not support bacterial growth
- Resistant to extremely high levels of relative humidity in substrates
- Self-leveling, water based and VOC compliant formulation
- Can be applied to a wide range of substrate
- Indoor air quality compliant
- Thermal shock resistant

### AREA OF USES

- It is suitable for flooring in breweries and wineries, pharmaceutical Plants, commercial Kitchens and Restaurants, processing Areas and loading bays.
- All food & beverage industries
- Meat/poultry & dairy processing
- General warehouse & manufacturing facilities
- Cold storage facilities

### APPLICATION INSTRUCTION

- Automotive service bays

### Surface Preparation

- Remove all contaminants and weak laitance on the concrete substrate with appropriate degreasers and shotblasting for the final profile or use other mechanical means, washing the surface or sanding is not acceptable. Key all termination points and around all drains.
- Honor all joints in the concrete slab. Concrete must be at least 14 days old.
- A working vapor barrier on all on grade substrates is recommended.

### Priming

Priming for concrete substrate is required. Priming can be done with either Costar Primer 10, 20 or equal approved. Allow the primer to cure once applied and curing time may vary with temperature and humidity. Once first coat primer is tack free apply subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate.

### Mixing

Pour part A and part B mortar mix in to a containing vessel starting with the base resin. Mix for a minimum of two minutes.

### Application

Immediately, pour the mixed slurry onto the prepared substrate and spread with the gage rake at desired thickness. Allow to set 2 minutes and back roll with a porcupine roller to help release air bubbles. Broadcast your aggregate immediately. Broadcast to excess and allow to cure. In 6 to 7 hours additional base coats can be applied if necessary, to build up the thickness if heavy thermal shock attack is required. After final base coat is cured, sweep up and vacuum excess sand or media and apply the selected topcoat.

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## TECHNICAL PROPERTIES

Packaging	Component A	Component B	Component C	Total set
	Resin	Hardener	Filler	paste
	9.8kg	1.8kg	3.75kg	15.35kg
Mixed density @25 °C	1.56 kg/L			
Surface	smooth			
Compressive strength	>50 N/mm <sup>2</sup>			
Flexural strength	>30 N/mm <sup>2</sup>			
Bonding to concrete	2.6 N/mm <sup>2</sup>			
Pull off strength	2.5MPa			
Processing time	± 50 minutes.			
Walk -able time	after 24 hour			
Fire class	BFL S1 EN 13501 Euro norm			
Full mechanical load	after 4 days			
Heat resistance	60 °C			
Layer thickness	1-2mm			
Consumption	Coverage of materials on a primed or prepared substrate will vary depending on the porosity or density, profile and texture of the substrate. Approximately 1.5 to 2.0 kg / m <sup>2</sup> / mm is adopted for theoretical coverage estimation			
Curing	Shrink -free			
Pot Life	<b>Temperature</b>	<b>Time</b>		
	+10°C	35-40mins		
	+20°C	22-25mins		
	+30°C	15-18mins		
	+35°C	12-15mins		
Curing time	<b>Temperature</b>	<b>Foot Traffic</b>	<b>Light Traffic</b>	<b>Full Cure</b>
	+10°C	24h	48h	7d
	+20°C	24h	24h	5d
	+30°C	12h	18h	3-4d
	+35°C	12h	18h	3-4d

**NOTE:** Times are approximate and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity. If used other primers than Scratch Coat refer the Technical Data Sheet of the respective product. Make sure that the primer and the scratch coat layer is fully cured before recoating.

### CLEANING OF EQUIPMENT

- Immediately after product application, all equipment / tools used can be cleaned with a suitable thinner (Xylene / MEK / Acetone) or any appropriate etching agent.
- Hardened and/or cured material can only be removed mechanically.

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### SHELF LIFE

Shelf life is 12 months provided the temperature is kept within the range of 5°C to 50°C.

### STANDARD COMPLIANCE

Conforms to the requirement of EN 13813, ISO 2555, ISO 1768

### LIMITATION

- Only mix whole complete units to assure the performance criteria in this data sheet.
- Do not use partial units or try to break down the unit as the performance will be compromised.
- If the aggregate is not thoroughly mixed and all Portland cement is not thoroughly mixed in the slurry, blisters may develop in the finished floor.
- Some chemicals may cause discoloration but this will not affect the performance of the floor. Test for discoloration before use if this is a concern.

### HEALTH & SAFETY

Confloor 5300 should not come in contact with skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. Please refer SDS

### ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

### LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.