

# Technical

## *Data Sheet*

MEDIUM TO HEAVY DUTY, SELF-SMOOTHING, POLYURETHANE  
CONCRETE FLOORING SYSTEM

### **DESCRIPTION:**

PANCRETE 49 is a four component polyurethane concrete floor system This flowable system is applied at a thickness of 4–6 mm and forms a smooth surface The thickness determined by the service and cleaning temperatures and the severity of traffic expected

PANCRETE 49 is extremely tough and has many physical properties that exceed those of typical concrete PANCRETE 49 is recommended for conditions requiring the maximum chemical resistance and where a smooth, even and easy to clean surface is required

### **Advantage:**

- ECO Friendly
- Fast Application : Can Be Applied to 6 Days old Concrete Floor
- Solvent Free/Low VOC/ Odor Free
- Hygiene/safe (Non tainting, non dusting, monolithic (minimum joints) easy to maintain microbiologically inert)
- Thermal expansion properties similar to concrete
- Tolerant to substrates with high moisture content
- Water based system with a high level of mechanical, chemical and water resistance
- Excellent impact resistance at 6 mm) thickness Can Handle heavy traffics
- Slip resistant finish

### **Product Information**

<b>Chemical Base</b>	Water based polyurethane cement hybrid
<b>Packaging</b>	<b>Part A+B+C+A1 pre-batched 19.80 kg set</b>  Part A (Resin): 2.52 kg container Part B (Hardener): 3.21 kg container Part C (Filler): 13.00 kg bag Part A1 (Pigment): 0.5 kg container
<b>Appearance / Colour</b>	Part A: White liquid Part B: Dark brown liquid Part C: Off-White powder Part A1 : Liquid colour (Grey, Light Grey, Green, Yellow, Red, Blue) Cured finish: Matt finish
<b>Self Life</b>	12 Months from Date of Manufacturing
<b>Consumption</b>	Scratch Coat : 1.90 Kg/m2/mm Finish/Top Coat : 1.90 kg/m2/mm

### **Application:**

- Food and beverage production
- Textile and film plants
- Confectionery production
- Pharmaceutical production
- Dairy and Milk Products
- Freezer / Refrigerated stores
- Bakeries confectionery industries
- Hotel kitchens
- Chemical plants
- Laboratories
- Workshops
- Warehouse

### Typical Properties:

The values shown are typical of results obtained in the laboratory at 27°C±1°C Actual performance values obtained on site may vary from those quoted

Pot Life	20 Min
Light Traffic	24 Hrs.
Full Cure	7 Days
Bond Strength	> 1.5 N/mm <sup>2</sup>
Compressive Streinth	50 N/mm <sup>2</sup>
Flexural strength	18 N/mm <sup>2</sup>
Tensile Strength	07 N/mm <sup>2</sup>
Hardness, Shore D	80-90

The results given above are achieved in laboratory tests Actual results obtained on site may show minor variations from those quoted

Color uniformity cannot be completely guaranteed from batch to batch Do not mix batches within a single area. The final color of Pancrete 49 on both interior and exterior application is prone to yellowing effect and may darken/lighten under UV light exposure This yellowing effect is dependent upon the amount of UV exposure, both in terms of intensity and time, and is more noticeable with lighter colors The performance of the product, however, will not be affected

#### Abrasion resistance :

Classified 'Special Duty' Under BS 8204 Part 2 :2002(9)

#### Slip resistance

Classified 'Satisfactory' Under BS 8204 Part 2: 2002(9), Wet and dry

#### Impact resistance

Classified 'High Impact Resistance' Under BS 8204: Part 1: 1999

#### Chemical resistance

Pancrete 49 is resistant to following chemicals tested for about 7 days (Immersion Testing):

- Dilute mineral acids, including hydrochloric ( 35%), phosphoric (< 50%), and sulfuric (< 30%)
- Alkalies, including potassium hydroxide to a 50% concentration
- Some dilute organic acids such as acetic (25%), formic, citric, lactic and uric Fats, oils, and sugars
- Mineral oils, diesel fuel, kerosene, and gasoline
- Most organic solvents, including aliphatic and aromatic hydrocarbons and alcohol

### SUBSTRATE QUALITY

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, dry and free of all contaminants such as oil, grease, coatings and surface treatments, etc.
- The product can be applied on green or damp concrete with no standing water. Allow for at least 7 days for early concrete shrinkage to occur to prevent shrinkage cracks from appearing on the wearing surface.

### SURFACE PREPARATION

The concrete or screed substrate must be hard, sound and free of dust and other barrier material such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc. that will inhibit adhesion to the substrate

### PRIMING / SCRATCH COAT

Use suitable primer depending on substrate condition to ensure maximum product performance. Preferably scratch coat of Pancrete 49 is recommended

### MIXING

The contents of Part A, Part D pigment sachet and Part B of Pancrete 49 must be first mixed together for 1 minute, using forced action, in a suitably sized mixing vessel. The contents of Part C the powder component should then be introduced into the mixed resin and mixed together for a further 2 minutes to create one homogeneous mix

### APPLICATION

For flooring applications, the mixed material should be applied to the prepared and primed surface after 24 hours of priming, using a trowel to achieve the desired thickness. As soon as the product has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to provide an even surface appearance. Do not re roll later

### Drying Time

The floor can be returned to full service in 12 hours at 30°C. Full cure at 28 days.

### STORAGE SHELF LIFE

PANCRETE 49 should be stored in a cool and dry place, preferably in the sealed container and should not be exposed to direct sunlight. This product has a shelf life of 6 months if stored in its original container between 22°C and 30°C away from humidity and excessive heat.

This may cause pronounced skin irritation, therefore rubber gloves, eye protection creams and breathing mask are recommended. Please refer to the Safety Data Sheet (for detailed instructions on storage and handling)

## **SAFETY**

Wear protective equipment Avoid contact with eyes and skin Safety Data Sheets ( are available on request SDS are furnished to customers to provide handling and disposal information

## **CAUTION**

This product is for professional use only The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to company's technical documentation.

Applicators and operators shall use appropriate personal protection equipment when using this product This guideline is given based on the current knowledge of the product Any suggested deviation to suit the sit conditions shall be forwarded to the responsible company representative for approval before commencing the work

## **IMPORTANT**

- **Protecting the material after application**

After application, protect the system from damp, condensation and direct water contact for at least 2 hours.

- **Protect from overhead leaks and condensation**

Protect the product during application from pipe condensation or any overhead leaks.

- **Ventilation in confined spaces**

Always ensure good ventilation when applying the Product in a confined space.

### **Disclaimer**

*All recommendations for use of our products whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge Although, the information contained in this sheet is accurate, no liability can be accepted in respect of such information We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control*

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