

# PUC MF- 77

## Poly- Urethane Concrete Medium Flooring.

### SCOPE

PUC MF-77 is three components, chemical resistant antimicrobial polyurethane resin floor finish. It has a hard wearing, abrasion resistant and smooth matt coloured floor finish. Poly-urethane concrete flooring MF is recommended for Industrial floors, Specially for food , pharma, Dairy & Milk Products , Freezer rooms & Refrigerated stores , Hotel kitchens ,Cold storages , Bakeries & Confectionery industries , meat ,poultry & fish processing plants , Beverages plants ,warehouse & storage and any other industry where heavy duty flooring with high temperature resistance is required.

### SURFACE PREPARATION

Make the surface absolutely free from dust particles and other loose material in the form of sand, cement, aggregate etc. with the use of manual / mechanical tools viz. Wire brushes, scrappers and even chip off loose /solid material, if any, clean-up the whole surface thoroughly and achieve firm and hard surface. If there is any existing old paint/coating on the floor, remove it thoroughly with the help of mechanical tools, achieve the original surface for better results and the surface should be clean & dry before application similarly, remove all the other contaminants, oil, grease etc. Grinding / shot blasting of the floor shall be carried out Group shall be cut in square shape in 3 mt. distance from 08 mm to 10 mm in width and same in depth.

### PRIMING

Suitable primer shall be applied after grinding and grooves cutting and shall be left for curing as recommended.

### SCRACH COAT APPLICATION

Scratch coat in the thickness of 01 mm shall be applied after fully cured primer application of PUC MF - 77 material with trowel and shall be left for curing of minimum 24 hrs.

PHYSICAL and CHEMICAL PROPERTIES	
Color shade	: Green, Red, Grey, Yellow, Blue.
Type	: Three pack system Component "A", Resin(base) Component "B" Hardner (curing agent) Component C-Filler.
Mixing ratio	: as per directions on the- Containers.
Composition	: PU.
Pot life	: 15 - 20 Minutes.( Depending on room temperature.
Shelf life	: 06 months. In sealed containers.
Recommended Coats	: one or more.
Application	: Trowel
Drying time	: Touch dry - 2-4 hr. Hard dry – 10 -12 hr.
Coverage	: 1.9 kg/ mm / sq. mt./.(approx.)
Thickness Range.	: 03 mm to 05 mm.
Packing Available	: 20 kg. kit.
	Compressive strength (ASTM C 579) : 56 MPa
	Flexural strength (ASTM C 580) : 27 MPa
	Tensile strength (ASTM C 307) : 16 MPa
	Bond strength to concrete : (Elcomete pull of test) Exceeds Tensile strength of concrete
	Hardness, Shore D (ASTM D 2240) : 80 - 90
	Taber Abrasion Loss/1000 Cycles : 35 mg (H22 wheels)
	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
	Temperature resistance : Tolerant from : - 24°C to 77°C

## NOTES

1. Do not apply during rain fog or mist.
2. Avoid application in environment of flowing dust.
3. Smoking or naked lights should not be permitted.
4. Use Gloves and Mask, while applying Wash hand and face regularly with hot water and Soap.
5. Brushes and spray equipment should be cleaned with Thinner or our "ETN-1" otherwise equipment is liable to be damaged. Dip Brushes and spray equipment in "ETN-1" during stop-gaps in application.

## PRECAUTIONS

1. Keep the container closed after each withdrawal of material.
2. Unused drawn material should never be put back into containers.
3. Keep the container in a dry place between 5°C and 30°C, and away from moisture and flame.
4. Application shall be done by trained and experienced workers followed by skilled supervisor.

### **Disclaimer:-**

The information contained within this data sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control. Right to change the specifications is reserve. Colour change can be subjected to UV light and if temperature goes beyond the recommended as per system suggested.

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