

## am POLYTHANE 400 (HF/MF/GF)

A heavy duty, smoothing or slip resistant polyurethane screed, floor

### DESCRIPTION

**am** Polythane 400 (HF/MF/GF) is a multi-Component Polyurethane trowel and flow applied in average thickness from 3-9mm for industrial application and repairing in matt anti-skid finish offering versatility in performance, aesthetic and cost effective.

### USES & ADVANTAGES

**am** Polythane 400 (HF/MF/GF) is used extensively in the following areas:

Hygienic floor for kitchen, wet floor, beverage, processing and packaging plants.

Anti-skid finish for safety in slippery or oily services conditions.

Thermal shock, chemical resistance floor for chiller, oven installed areas or chemical process.

- Food production
- Meat processing
- Vegetable and fruit canning
- Dairy products, bakeries and confectioners
- Chemical production and processing
- Textile production - bleaching and dying
- Metal processing and engineering

**am** Polythane 400 (HF/MF/GF) is providing : Excellent chemical resistance, high temperature resistance (up to 120°C and anti skid for safety purposes.

Maximum wear, abrasion and impact resistance.

User-friendly, easily cleaned and maintained surface. Resists bacterial growth, fungi, mildew

Seamless without joints for sanitation, hygienic finish and Food Grade.

**am** Polythane 400 (HF/MF/GF) is available in standard colors such as Yellow, Light Grey, dark green and Red.

As a direct result slight yellowing of the floor surface exposed to UV may occur especially in light colors without affecting its performances or functionality.

### Packaging

**am** Polythane 400 (HF/MF/GF) systems is supplied in different packs and sizes for primer coat / topcoats with resin A, hardener B and filler C and pigment D for chosen product.

### Typical Data of Hardened Material

Density	2.0 Kg/mm/m <sup>2</sup>
Thermal conductivity	1.0 W/m°C
Compressive strength	62 N/mm <sup>2</sup>
Tensile Strength	7 N/mm <sup>2</sup>
Flexural strength	15 N/mm <sup>2</sup>
Bonding strength	Concrete Failure
Dynamic Elastic Modulus	2000 N/mm <sup>2</sup>
Taber Abrasion resistance	0.1gm/1000gm/100rpm
Coefficient of linear thermal expansion	25 x 10 <sup>-5</sup> °C
Impact resistance	<0.5(BRE Screed Tester)mm
Temperature resistance	- 40°C - 120°C (9mm)
Water absorption	0 ml
Pot life	25 Min @ 15°C 35 Min @ 8°C

## Application Procedure Preparation:

**am** Polythane 400 (HF/MF/GF) must be applied to a clean, dry substrate free from dust, dirt, oil, grease and other contaminants.

### Existing concrete:

Old floor needs thorough inspection for its integrity providing an ideal substrate for maximum bonding. Surface has to be free from all contaminants. Grooves of approximately 5mm wide and 5mm deep have to be created diagonally into the floor every 1.5m to facilitate mechanical bonding.

For best performances should not be applied to concrete, which contains more than 5% moisture by mass. The substrate can be considered sufficiently dry only when the Relative Humidity (RH) at the surface falls to 75% or less when measured with a hygrometer to BS 8201: 1987 Appendix A.

### New construction:

Floors to be overlaid should be at least 28 days old. The removal of laitance and contaminants is best achieved by mechanical means, such as vacuum recovery shot blasting or scarifying.

**Service temperatures** is from -40°C up to 120°C and depending on thickness but only may be up to 120°C on intermittent splash.

**Installation temperature** should not be applied on floor or substrate temperature below 10°C. Temperature should not fall below 5°C in the 24 hours after application.

### Curing conditions

Foot traffic 10 hours @25°C / 8 hours @ 35°C

Light traffic 24 hours @25°C / 18 hours @ 35°C

Full traffic 48 hours @25°C / 24 hours @ 35°C

Full cure 7 days @25°C / 5 days @ 35°C

All moving joints must be carried through the properly sealed. Construction joints and cracks may be covered but if substrate movement occurs, the **am** Polythane 400 (HF/MF/GF) will reflect the crack.

## Maintenance

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

Only use clean water to wash the floor for the first 5 days from the completion date and can use liquid light diluted soap, detergent with pressure water to wash the floor.

## Storage & Shelf Life

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Up to 06 months if stored in unopened containers.

## Safety Precautions

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention.

## Cleaning

Uses thinner, acetone, xylene or other solvent to clean tools prior to material taking a hard set.



022 - 021  
Eco-Friendly Building Material  
Minimum 20% Recycled Content

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