



# product data sheet

VERSION 1.0

## MIMACO

Two component  
Self Levelling,  
Slightly Elastic  
Polyurethane  
Flooring Resin

### DESCRIPTION

#### MAC PU FLOORING MARINE

is a two component, self-levelling solvent free polyurethane material that upon curing produces a strong, slightly elastic film with excellent adhesion to various surfaces. The product is based on pure hydrophobic polyurethane resin plus special inorganic fillers that provide the material with excellent abrasion and Chemical Resistance.

## MAC PU FLOORING MARINE

### RECOMMENDED FOR

- Industrial Floors
- Ship Decks
- Food, Chemical and Pharmaceutical Industries
- Refrigeration cells
- Secondary containment
- Asphalt floors
- Tanks
- Car parks

### FEATURES & BENEFITS

- Solvent free
- Long pot life
- Temperature Resistance from -40°C up to 90°C.
- Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- Crack bridging

### APPLICATION PROCEDURE

#### Concrete substrate conditions (standard):

- Hardness: R28 =15 MPa
- Humidity: W < 10%
- Temperature: from 5 oC - 35 oC
- Relative humidity: < 85%

Clean the surface, using jet water if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membranes must be removed. Fill surface irregularities with adequate products.

Primer must be applied on relatively fresh concrete or in cases where negative pressure may cause the material to bubble. In these cases, either apply several coats of **MAC AQUA SEALER** (our water based epoxy primer) or our 100% solids epoxy primer. Both can be charged with sand as described in the respective technical data sheets. For substrates that need to be made stronger, the one component penetrating primer **MAC PRIMER OUTLOOK** should be used.

#### MIXING:

Use a low speed (300rpm) electric drill.

#### APPLICATION:

Apply undiluted with a notched trowel, squeegee or roller.

As soon as the material is applied, use a spiked roller to remove entrapped air.

#### TOP COAT:

**MAC PU FLOORING MARINE** is an aromatic polyurethane system and therefore will discolor when exposed to UV. For color protection, traffic/abrasion resistance as well as providing an easy clean final satin finish, the use of **MAC LACQUER FORTE** pigmented is recommended.



### CONSUMPTION

### CLEANING

Clean tools and equipment first with paper and then using SOLVENT.  
Rollers will not be re-usable.

### PACKAGING

- 15,5 Kg + 4,5Kg (20 Kg)
- 3,875 Kg + 1.125 Kg (5 Kg)

### SAFETY INFORMATION

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25o C.  
The MSDS (Material Safety Data Sheet) is available on request.



## TECHNICAL SPECIFICATIONS

### The Liquid product:

PROPERTY	UNITS	METHOD	SPECIFICATION
Pot Life (25°C) & 55% RH	Min.	Internal Method	20-30
Viscosity (BROOKFIELD) upon mixing	cP	ASTM D2196-86, at 25oC	2500-3500
Specific weight	gr/cm3	ASTM D1475 / DIN 53217 / ISO 2811, at 20oC	Component A (hardener): 1.2 Component B (resin) : 1.26
Tack free time, at 77deg F (25oC) & 55% RH	hours	-	2-3

### The Film:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	oC	-	-40 to 80
Max. temperature short time (shock)	oC	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	>60
Tensile Strength at break at 23 oC	N/mm2	ASTM D412 / EN-ISO-527-3	>30
Percent Elongation at 25 oC	%	ASTM D412	>50
Water Vapour Transmission	gr/m2.hr	ASTM E96 (Water Method)	@0,8

Certified quality, environmental and occupational health & safety management systems:  
 ISO 9001/14001 & OHSAS 18001. MAC PU.F.M/EE/1-1-18

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