

HYPERFLOOR-2K MARINE

Two component Self Levelling, Flexible, Fire resistant Polyurethane Flooring Resin

DESCRIPTION

HYPERFLOOR-2K MARINE is a modified version of **HYPERFLOOR 2K** for use in marine applications such as primary ship deck protection, certified as non-combustible according to IMO Resolution MSC.307(88) – Fire Testing Procedures Code (2010 FTP Code)– Annex 1 – Part 5.

It is a two component, self-levelling solvent free polyurethane material that upon curing produces a strong, flexible 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 as well as fire resistance.

COMPLIANCE – CERTIFICATION

IMO Resolution MSC.307 (88) – Fire Testing Procedures Code (2010 FTP Code)– Annex 1 – Part 5.

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

Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15$ MPa
- Humidity: $W < 10\%$
- Temperature: from 5 °C - 35 °C
- 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 case where negative pressure may cause the material to bubble. In these cases, either apply several coats of **AQUASMART®-DUR** (our water based epoxy primer) or **EPOXY RESIN-21 CLEAR** (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 **MICROSEALER-50** 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:

HYPERFLOOR-2K 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

AQUASMART®-TC-2K-FLOOR PROTECT pigmented is recommended.

Alternative topcoat (APPLIED PIGMENTED) selections are:

HYPERDESMO® ADY-2K

HYPERDESMO® ADY-100

HYPERFLOOR-2K MARINE

PACKAGING

15.5 kg + 4.5 kg (20 kg)
3.875 kg + 1.125 kg (5 kg)

SHELF LIFE

HYPERFLOOR-2K MARINE can be kept for minimum 12 months in the original unopened pails at a temperature of 5 °C - 25 °C in dry places.

TECHNICAL SPECIFICATIONS OF HYPERFLOOR-2K MARINE

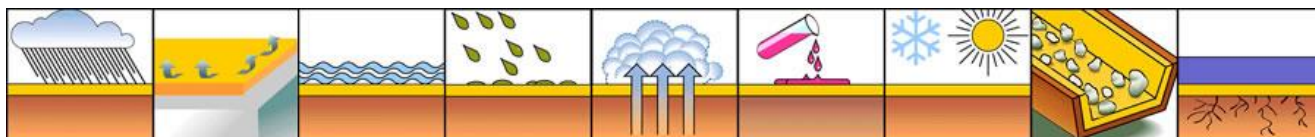
The Liquid product:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Pot Life (25°C) & 55% RH	Min.	Internal Method	20-30
-Viscosity (BROOKFIELD) upon mixing	cP	ASTM D2196-86, at 25°C	4500-6000
- Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, at 20°C	Component A (hardener): 1.20-1.25 Component B (resin): 1,64
-Tack free time, at 77degF (25°C) & 55% RH	hours	-	2-3

The Film:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Service temperature	°C	-	-40 to 80
-Max. temperature short time (shock)	°C	-	200
-Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	>60
-Tensile Strength at break at 23 °C	N/mm ²	ASTM D412 / EN-ISO-527-3	>30
-Percent Elongation at 25 °C	%	ASTM D412	>50
-Abrasion Resistance	Mg loss	ASTM D6040, CS17 WHEELS, 1000 REVS, 1000 GR	20
-Water Vapour Transmission	gr/m ² .hr	ASTM E96 (Water Method)	@0,8

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