

HYPERFLOOR-2K

Product Data Sheet

Two component Self Levelling, Slightly Elastic Polyurethane Flooring Resin

Description

HYPERFLOOR-2K 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.

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

Applications

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

Application

✓ Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15\text{MPa}$.
- 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 cases where negative pressure may cause the material to bubble. In these cases, either apply several coats of **AQUASMART-DUR** (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 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

HYPERDESMO® ADY-E

HYPERFLOOR-2K

Product Data Sheet

Packaging

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

Shelf Life

HYPERFLOOR-2K 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

In liquid form (Before Application)

Property	Units	Method	Specification
Pot Life 25°C & 55% RH	Min	Internal Method	20-30
Viscosity (BROOKFIELD)	cP	ASTM D2196-86, at 25°C	1,500-2,500
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, at 20°C	Component A (hardener): 1.20-1.25 Component B (resin): 1.25-1.30
Tack free time, at 25°C & 55% RH	Hours	-	2-3

The cured form (After Application)

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 @ 23 °C	N/mm ²	ASTM D412 / EN-ISO-527-3	>30
Percent Elongation at 25 °C	%	ASTM D412	>50
Water Vapour Transmission	gr/m ² .hr	ASTM E96 (WATER METHOD)	0.8

For more information on Hyperdesmo, Hyperseal & Aquasmart range of products and application methods
Please contact Alchimica Technical Service at info@alchimica.co.in

NONE OF OUR PUBLISHED INSTRUCTIONS AND SPECIFICATIONS, IN WRITING OR OTHERWISE, ARE BINDING EITHER IN GENERAL OR WITH RESPECT TO ANY THIRD PARTY RIGHTS, OR DO THEY RELIEVE INTERESTED PARTIES OF THEIR DUTY TO SUBJECT THE PRODUCT TO AN ADEQUATE EXAMINATION OF ITS SUITABILITY. IN NO EVENT WILL ALCHIMICA BE RESPONSIBLE FOR DAMAGES OF ANY NATURE, WHATSOEVER, RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

Alchimica India Private Limited

No, 51, G Alwarthirunagar Annexe 1st Main Road
Valasarvakkam, Chennai - 600087.

Headquarters

7, Lampsakou St,
115 28 Athens, Greece.

R&D / Plant

13, Oryzomylon St,
122 44 Aegaleo, Greece.

 **25 YEARS
EXPECTED
WORKING LIFE**

