

## PRODUCT DATA SHEET

# HYDRO CAPFLOOR

## Water-based epoxy enamel

### FEATURES

Two-component epoxy coating, water-based, air drying, consisting of liquid resins and hardener amino, with excellent adhesion to mineral surfaces such as concrete, plaster, asbestos cement; on synthetic surfaces as fiberglass, polycarbonate, carbon fiber, ABS; on surfaces in aluminium and its alloys. Its high quality ensures ease of application, adhesion to different funds and adequate resistance to abrasion, performance to ensure a suitable protective film protect walls and floors. The coating is characterized by high mechanical and wear resistance, surface hardness, ensures a smooth and uniform easily cleanable and disinfected with excellent resistance to washing with pressure water washer and detergent, intense and traffic impact, stepping with rubber wheels with temperature range from - 20° C to 50° C

Being odorless is particularly useful for applications in poorly ventilated rooms; is made with raw materials selected for their low impact, with reduced pollution and with minimum emissions in order to preserve the well-being and safety of its users and of those living in the environment.

### USE

Suitable as a finish or as a base coat for the protection of new or maintenance products, based on alkaline supports such as plasters of various compositions, concrete and fiber cement on walls and continuous flooring in industrial, residential and social buildings. Ideal for wine cellars, canning industry, slaughterhouses, warehouses, hospitals. The drying, adhesion and properties of the enamel are compromised if the humidity of the support is high, if the temperature of the environment and / or of the support is lower than 10 ° C and if the relative humidity of the environment is greater than 65%. Carefully mix the two components, so as to obtain perfect homogeneity before application. Tools are cleaned with water immediately after use. Maximum resistance to foot traffic is reached after 7 days of drying at 23 ° C and 65% RH

### PROPERTY OF THE PRODUCT

#### CHEMICAL RESISTANCE, method UNI EN ISO 2812-3

Hydrochloric Acid 30%	2
Nitric Acid 10%	1
Sulphuric acid 30%	3
Ammonia 15%	4
Soda 50%	4
Bleach (<5% chlorine) 1:50 in water	3
Mineral oil, gasoline, diesel oil, vegetable oil	4
Sodium chloride 20%	4
Hydrogen peroxide 3,6% (12 vol.)	3
Water	4

WORKING TEMPERATURE < + 120° C

SOLID BY VOLUME, % 65 ± 2

#### CHEMICAL RESISTANCE, key legend

0 = complete disintegration of the coating

1 = medium cracking / blistering / swelling, softening and partial detachment

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2 = softening, pitting, flaking, light swelling  
 3 = opacification, chromatic variation, less resistant to mechanical action  
 4 = no alteration of the coating

## SPECIFICATION DATA

	VALUE	METHOD
Specific weight	1300-1500 g/l	Internal PF3
Pot-life	Max 120 minutes	Internal PF7
Gloss	55 ± 10	Interno PF6
Drying Time	Recoatable 24h; Fully 7 days	Internal PF2

 THICKNESS AND  
 COVERAGE

	Minimum	Maximum	Recommended
Thickness of dry film, (µm)	50	80	65
Thickness of wet film, (µm)	77	123	100
Theoretical coverage, (m²/l)	13	8.3	10
Theoretical coverage, (m²/kg)	10	6.9	8.3

## SHELF LIFE

6 months minimum, stored in its unopened and original cans at temperatures between +5°C and +30°C.

## COLOUR RANGE

The range of colours can be chosen in shades of RAL. Between one production and the other, tint may be slightly different, it is therefore important to finish the job with the same batch.

 SURFACE  
 PREPARATION

The treatment of the surface to be coated is of primary importance and affects the performance of the coating cycle.

A good and correct preparation of the substrate is a guarantee of quality on the duration of the coating: a high quality product applied on a poor substrate or on substrate inadequately treated is destined to an early wear, characterized by possible alteration of the coating itself.

For the success of the work surface should be free from previous treatments and clean from pollutants of various kinds such as dirt, oil, grease and salts using industrial grade alkaline detergents (washing, rinsing and rinsing water collection).

### HOT GALVANIZED STEEL

It is important to remember that the galvanized sheet must be passivated leaving the products exposed to atmospheric agents for at least two months; then proceed with a light sanding to remove the superficial oxidation patina formed and degrease the surfaces with Nitro NV 5000 thinner.

Alternatively, a light silica sandblasting is recommended.

### ALUMINUM AND LIGHT ALLOYS

Perform a light sanding with P180 P220 sanding paper. Clean the surface to be treated with Nitro NV 5000 thinner and make sure it is dry and free from

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silicone, waxes, greases and foreign substances in general.

**NEW CONCRETE**

The substrate must be finished, fine and mature (100 days), humidity 5%, shall provide a surface free from dust and imperfections, must not emerge cement grout.

Compression resistance:  $> 250 \text{ kg/cm}^2$

Tensile resistance:  $> 150 \text{ kg/cm}^2$

Porosity: treat with Concrete Capgel with the descaling agent support and after a few minutes, rinse thoroughly and carefully, taking care to collect water. Treatment with Capgel Concrete can also be done on wet surfaces just cleaned with alkaline detergent. Done wait until the surface is dry. You may proceed with minimum 24 hours after enamel application after floor humidity measuring shall be less than 5%.

Alternatively you can create a porous surface by mechanical abrasion made with shot peening or cutter making sure the surface is free of dust (suction). In the presence of cracks widen with grinding and fill with epoxy putty loaded with sand or concrete.

**TOOLS**

Roller, Spray. Brush (for small surfaces and profiles).

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### APPLICATION

Mixing ratio in weight	100:30 with Induritore Hydro
Mixing ratio in volume	Capfloor
	100:37 with Induritore Hydro
	Capfloor
Thinning	As undercoat: 40-60% with water; As finishing: 5-15% with water; Dilution depends on the porosity of the substrate.
Use time at 23 °C	As undercoat, with thinning up to 60%: 45 minutes As finishing with thinning up to 15%: 120 minutes.
	Beyond the time indicated on the product is not to be used even if it is in a position to be even applied (low viscosity): dry product properties are irreparably compromised (gloss, adhesion, mechanical strength, chemical resistance, etc.).
Application conditions	+10 °C +40 °C
Airless application method	Relative humidity: < 65% Nozzle pressure: 15 MPa (150 kp/cm <sup>2</sup> , 2100 psi.). Nozzle: 0,28 - 0,38 mm (0,011 - 0,018") Angle range: 40 - 80 ° Air pressure: compression ratio 30:1 (pressure 150-180 kg/cm <sup>2</sup> )
Thinner for washing	Water immediately after use

### DRYING TIME

The data supplied must be considered merely indicative. The actual drying time can be shorter or longer, taking account of film thickness, ventilation, humidity. In the subsequent coating the better adhesion is achieved when the application of the next hand is done before the time of complete catalysis.

DTF 65 micron			
Surface temperature	10 °C	23 °C	35 °C
Out touch	60'	60'	45'
Dry to touch	36h	16h	10 h
Full catalysis	72h	24h	18h
Minimum time of over application	36h	16h	12h
Maximum time of over application	6 days	5 days	3 days

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RECOMMENDED SYSTEM	Industrial flooring			
	Product	coats	Wet thickness	Dry thickness
	Hydro Capfloor	1	77	50
	Hydro Capfloor	1	100	65
	Hydro Capfloor	1	100	65
	Total	3	277	180

## INSTRUCTIONS

To carry out the work in a proper way, it is needed to strictly follow the instructions for the preparation of the surfaces contained in the CAP Arreghini Books. The specification data and technical information have been calculated at +23°C with relative ambient humidity of 65%. In different conditions the data and the time intervals between the two phases of the above reported coating system may vary.

This technical information is intended as a rough guide. However, because of the enormous variety of media and application conditions, it is essential to check the suitability of the product and test the effectiveness on a sample.