

## PRODUCT DATA SHEET

# CAPFLOOR

## Epoxy enamel for floors

### FEATURES

It is a two-component coating based on liquid epoxy resins without solvent, able to withstand mechanical and chemical stress in industrial activities, with excellent adhesion on mineral surfaces such as concrete, cement plaster, fiber cement. The coating, characterized by high mechanical performances such as anti-wear and surface hardness, ensures a smooth and uniform surface easily cleanable and disinfected with excellent resistance to washing with high pressure water and detergents, treading, to foot and intensive traffic with rubber wheels with temperature range between - 20 ° C and 50 ° C. It is appropriate to treat the surfaces of food industries and food storage, complying with the requirements of the EC Regulation 852.

### USE

Carefully mix the two components so as to obtain a perfect homogeneity before application.

The resistance to abrasion and to any chemical attack make it suitable for the application on garages, warehouses, engineering and chemical industries. Ideal for wine cellars, canning industry, slaughterhouses, warehouses, hospitals.

The drying, the adhesion and the 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 is higher than 65%.

Maximum resistance to foot traffic is reached after 7 days of drying at 23 ° C and 65% RH. Outside it is essential to overcoat with a polyurethane or acrylic finish.

### PROPERTY OF THE PRODUCT

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

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

WORKING TEMPERATURE < +120 °C

FLASH POINT > 60 °C ± 2

SOLIDS BY VOLUME 90 ± 2 %

#### CHEMICAL RESISTANCE, key

0 = complete disintegration of the coating

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

2 = softening, pitting, flaking, light swelling

## PRODUCT DATA SHEET

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3 = opacification, chromatic variation, less resistant to mechanical action  
 4 = no alteration of the coating

## SPECIFICATION DATA

	VALUE	METHOD
Specific weight (A)	1800-2000g/l	Internal PF3
Specific weight (B)	950-1050 g/l	
Drying Time	Recoatable 16h Fully 7 days	Internal PF2
Gloss	> 80	Internal PF6
Pot-life	Minimum 30'	Internal PF7

 THICKNESS AND  
YIELD

	Min.	Max	Recommended
Thickness of dry film, $\mu\text{m}$	125	175	150
Thickness of wet film, $\mu\text{m}$	139	194	167
Theoretical yield, $\text{m}^2/\text{l}$	7.2	5.2	6
Theoretical yield, $\text{m}^2/\text{Kg}$	4.4	3.2	3.7

## SHELF LIFE

1 year stored in its original and unopened can at a temperature between  $+5^\circ\text{C}$  e  $+30^\circ\text{C}$ .

## 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.

 PREPARATION OF  
SURFACE

**General considerations:**

for the success of the work the surface must be free from previous treatments and cleaned of pollutants of various kinds such as dirt, oil, grease and salts through the use of industrial alkaline detergents (washing, rinsing and rinsing water collection).

It is necessary to carry out a test on about  $1 \text{ m}^2$  of the surface to be treated to verify the adhesion of the product.

**New concrete**

The surface must be finished, order and seasoned (100 days), humidity  $<5\%$ , must have a surface free of dust and imperfections, must not emerge any cement grout.

Resistance to compression:  $> 250\text{kg}/\text{cm}^2$

Resistance to traction:  $> 150 \text{ kg}/\text{cm}^2$

Porosity: pour water on the surface; if absorbed, painting can be performed otherwise treat with 5% hydrochloric acid and wash with neutral pH detergent or create mechanical abrasion.

Alternatively, a porous surface can be created by mechanical abrasion using a shot blaster or milling cutter, making sure that the surface is free of processing dust (suction).

## PRODUCT DATA SHEET

# CAPFLOOR

## Epoxy enamel for floors

In the presence of cracks: enlarge with abrasive wheels and fill with epoxy filler loaded with sand and / or cement.

**TOOLS**

Short-haired roller, notched trowel.

**APPLICATION**

Mix ratio in weight	100:20 by Induritore Capfloor
Mix ratio in volume	100:30 by Induritore Capfloor
Induction time	35°C:5' - 23°C:10' - 10°C:15'
Thinning	0-5% by Diluente S800
Time of use 23°C	30 minutes for 1 Kg of catalyzed product
Application condition	+10°C +40°C
	>3°C at dew point
	Relative humidity: <65%
Thinner for washing	Thenner Nitro NV 5000

Note: CAPFLOOR use time decreases when the atmosphere temperature and the product temperature grow, and with increasing of the amount of catalyzed product. For example catalysing 1 Kg of product at 30°C, the usage time becomes 15 minutes.

It is therefore advisable to work with ambient and product temperature of 20-23° C and to catalyze small quantities of product at a time. A possible dilution in recommended amounts slightly increases the time of use. Catalysis is a strongly exothermic reaction, therefore the product in cans heats up considerably after the usage time.

**DRYING TIME**

Dry time are purely indicative as it might be longer or shorter by keeping in consideration ventilation, humidity, thickness of the applied film. In over coating, best adhesion can be obtained when next application is done before catalysis is completed.

Exceeding maximum time between coats it is necessary to sand.

DFT 150 micron			
Surface temperature	10°C	23°C	30°C
Out touch	5h	3h	2h
Dry touch	24h	16h	12h
Full catalysis	9 days	7 days	5 days
Minimum time of over application	24h	16h	12h
Maximum time of over application	5 days	3 days	2 days

**RECOMMENDED SYSTEM**

On new concrete			
Product	Coat	Wet Thickness	Dry thickness
Cement Block	1	167	150
Capfloor	1	167	150
Capfloor	1	167	150
Total	3	501	450

## PRODUCT DATA SHEET

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**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.