

TECHNICAL DATA SHEET

HYDRO CEMENT BLOCK

Epoxy anti-dust water-based varnish for concrete flooring

FEATURES

Waterborne epoxy-polyamide paint, dual component, air drying, based on liquid epoxy resin with excellent adhesion on mineral surfaces such as concrete, plaster, fiber cement. Suitable for the preparation of concrete substrates such as dustproof transparent product. The product offers excellent penetration qualities, with good consolidating power when applied on friable. It is a product that does not produce any odours or harmful vapors during both application and after drying. It is appropriate to treat the surfaces of the food industry and food storage areas complying with the requirements of the EC Regulation. 852/2004.

Used as a finishing, it is characterized by mechanical performances of anti-wear and surface hardness, it ensures a smooth and uniform surface easily cleanable and disinfected with excellent resistance to washing with pressure washer and detergents, treading, to intense pedestrian traffic and traffic with rubber wheels with operating temperature from - 20 ° C to 50 ° C.

TYPICAL USE

Adatto come fondo-finitura nella protezione di manufatti nuovi o in fase di manutenzione, a base di supporti alcalini quali intonaci di varia composizione, calcestruzzo e fibrocemento su pareti e pavimentazioni continue nell'edilizia industriale, residenziale e sociale. ideale quindi per cantine vinicole, officine, carrozzerie, industria conserviera, macelli, garage, magazzini ed in tutti i casi dove si richiede resistenza agli agenti chimici ed all'abrasione.

Suitable as undercoat-finishing in the protection of new structures or structures undergoing maintenance, based on alkaline substrates such as plasters with different compositions, concrete and fiber cement on walls and pavings of industrial buildings, residential and social. Therefore it's ideal for wine cellars, workshops, body shops, canning, slaughter houses, garages, warehouses and in all cases where resistance to chemical agents and abrasion is required.

The drying, the adhesion and the abrasion resistance is reduced by high humidity of the support, from temperatures of the environment and / or temperatures of the substrate lower than 10 ° C and relative humidity of environment >65%. Carefully mix the two components, so as to obtain a perfect homogeneity before application. Tools are cleaned with water immediately after use. In the case of use as a finish, the highest resistance to walkability is reached after 5 days.

PERFORMANCE DATA

DESCRIPTION	VALUE
Specific weight (A)	1000-1100g/l
Specific weight (B)	1000-1100 g/l
Working temperature	< +120 °C
Solid by volume %	50 ± 2
VOC (A+B)	52g/l
Gloss level 60°	50-60

THICKNESS AND COVERAGE

	Minimum	Maximum	Recommended
Thickness of dried film (μm)	35	70	50
Thickness of wet film (μm)	70	140	100
Theoretical coverage (m²/l)	14,3	7,4	10
Theoretical coverage (m²/kg)	14,3	7,4	10

SHELF LIFE

6 months in its original and unopened can at a temperature from +5°C and +30°C.

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COLOUR RANGE	Colourless.	
SURFACE PREPARATION	<p>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 by the use of alkaline industrial cleaners (washing, rinsing and collecting water rinsing).</p> <p><i>New concrete</i> 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.</p> <p>Compression resistance: > 250 kg/cm² Tensile resistance: > 150 kg/cm² Porosity: treat with Concrete Cappel with the descaling agent support and after a few minutes, rinse thoroughly and carefully, taking care to collect water. Treatment with Cappel 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%.</p> <p>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.</p>	
TOOLS	Roller, Spray. Brush (for small surfaces and profiles)	
APPLICATION	Mixing ratio in weight Mixing ratio in volume Thinning Use time @ 23°C Application conditions Airless application method Thinner for washing	100:50 with Induritore Hydro Cement Block 100:50 with Induritore Hydro Cement Block As undercoat: 70-100% with water; As finishing: 15-25% with water; Dilution depends on the porosity of the substrate. 3-4 h +10°C +40°C Relative humidity: <70% Nozzle pressure: 15 MPa (150 kp/cm ² , 2100 psi). Nozzle: 0,28 - 0,38mm (0,011 - 0,018") Angle range; 40 - 80° Air pressure: compression ratio 30:1 (pressure 150-180 kg/cm ²) 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.	

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DTF 50 micron

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

RECOMMENDED SYSTEM

Industrial flooring	Coats	Wet thickness	Dry thickness
Product			
Hydro Cement Block	1	100	50
Hydro Cement Block	1	100	50
Hydro Cement Block	1	100	50
Total	3	300	150

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.