



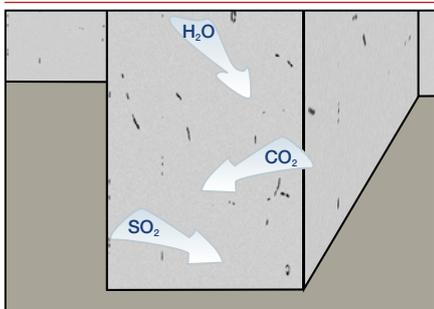
# INDECOLOR BETON

SOLVENT BASED DECORATIVE PROTECTIVE ANTI-CARBONATION PAINT FOR CONCRETE

| CHARACTERISTICS |               |            | ENVIRONMENTAL | METHOD OF USE     |                |                 | PRECAUTIONS |
|-----------------|---------------|------------|---------------|-------------------|----------------|-----------------|-------------|
|                 |               |            |               |                   |                |                 |             |
| ONE-COMPONENT   | SOLVENT BASED | WATERPROOF |               | SPRAY APPLICATION | APPLY BY BRUSH | APPLY BY ROLLER |             |

## PROBLEM

### PROTECT CONCRETE FROM AGGRESSIVE AGENTS



The CO<sub>2</sub> present in air can cause serious problems for reinforced concrete due to carbonation which leads to a reduction in the PH value, causing it to drop below the alkaline protection threshold. The formation of rust on the reinforcing rods causes the layer, which covers the iron, to crack and break due to expansion (spalling). The exposed iron rods are subject to rapid corrosion which causes the concrete to deteriorate quickly, putting the stability of the structure at risk.

## SOLUTION

Therefore, it is necessary to efficiently waterproof and protect concrete structures from aggressive atmospheric agents with anti-carbonation paints.

**INDECOLOR BETON** is a protective, decorative paint containing methacrylic resins dispersed in solvents.

Once dry, the paint forms a film which is impermeable to water but permeable to vapour.

The film adheres perfectly to the support and has an optimal resistance to crumbling, yellowing and to aggressive atmospheric agents.

## APPLICATION FIELDS

**INDECOLOR BETON** is used to protect and decorate concrete facades against carbonation and aggressive atmospheric agents. The product can be used on buildings in general, prefabricated structures, asbestos cement sheets and concrete structures such as bridges, viaducts, tunnels, etc.

## ADVANTAGES

- Protects concrete from aggressive atmospheric agents while maintaining a high level of transpirability to water vapour.
- Protects the support from concrete carbonation thanks to its high resistance to the penetration of carbon dioxide in the air.
- **INDECOLOR BETON** is a valid aesthetic solution for decorating and protecting concrete.



## METHOD OF USE

### • SUBSTRATE PREPARATION

For successful results all of the surfaces to be treated must be dry, clean, free of powder and grease and loose parts.

Holes, cracks and irregularities should be previously levelled off using RESISTO UNI-FIX mortar (1).

On particularly porous surfaces apply a coat of **INDECOLOR BETON**, diluted with 30% nitro thinners, as an insulating primer.

### • APPLICATION

**INDECOLOR BETON** should be mixed well in the pail.

The product can be applied by roller (short lamb's wool), by brush or by spray (airless system) (2).

In this last case **INDECOLOR BETON** should be diluted with 20% nitro thinners. We recommend two coats in order to obtain the best aesthetic and protective results. **It is**

**always recommended to apply at least two crossover coats**, with the consumptions indicated below. The second coat is applied once the first coat has dried, at least 4 hours later.

### • COVERAGE

Il consumo è di 200 ml/m<sup>2</sup>×mano.

### • PRECAUTIONS

- Only apply on surfaces with good water drainage. Do not apply on surfaces subject to water stagnation.
- Not suitable for water tanks.
- Do not apply on wet or damp surfaces.
- Do not use in tanks, cellars or channels subject to strong water backflow or pressurised water.
- Do not use on surfaces or containers in contact with liquids for human consumption; drinking water or which may come into contact with solvents or mineral oils.
- Do not apply on very hot supports, as the filming process would be excessively accelerated with negative consequences regarding the adhesion of the product to the support.
- is highly flammable and therefore we

(See following)



## TECHNICAL CHARACTERISTICS

|   | Standard        | INDECOLOR BETON                             |
|---|-----------------|---|
| Appearance  |                 | Liquid                                      |
| Colour  |                 | Grey RAL 7032                               |
| Apparent density  | EN 2811-1       | 1.30 ± 0.10 kg/L                            |
| DIN 4 cup viscosity   | Internal method | 150 ÷ 180 seconds                           |
| Dry residue - at 130°C  | UNI EN ISO 3251 | 68 ± 4%                                     |
| Flammability point - closed container                           | ASTM D 3828-87  | >+23°C                                      |
| Storage in original packaging in a dry place                    |                 | 24 months                                   |
| <b>Mix properties and workability</b>                           |                 |   |
| Application thickness   |                 | 0.15 ÷ 0.30 mm (two coats)                  |
| Waiting time - for dust-free drying (*)                         |                 | approx 3 hours                              |
| Waiting time - for applying each coat over the previous one (*) |                 | approx 4 hours                              |
| Application temperature   |                 | +5°C ÷ +35°C                                |
| Application   |                 | manual or spray                             |
| <b>Performance characteristics</b>                              |                 |   |
|   | Standard        | Product performance                         |
| <b>Class and type</b>   | EN 1504-2       | <b>C PI-MC-IR</b>                           |
| <b>Water vapour permeability</b>                                | EN 7783-1       | Sd <5 m - class I                           |
| <b>Adhesion strength</b>  | EN 1542         | ≥1.5 MPa                                    |
| Adhesion strength - after thaw-frost cycles                     | EN 13687-1      | ≥0.8 MPa (no alteration)                    |
| <b>Capillary water absorption</b>                               | EN 1062-3       | w < 0.1 kg/m <sup>2</sup> ·h <sup>0.5</sup> |
| <b>CO<sub>2</sub> permeability</b>                              | EN 1062-6       | Sd >50 m (not permeable)                    |
| Ultimate elongation   | NFT 46002       | 160 ÷ 250%                                  |
| Adhesion strength   | NFT 46002       | 1.2 ÷ 1.8 MPa                               |
| Crack-bridging  | EN 1542         | 0.5 mm < class A3 ≤ 0.25 mm                 |
| Thermal resistance - Working temperature                        |                 | -30°C ÷ +90°C                               |
| <b>Hazardous substances</b>                                     | EN 1504-2       | According note in ZA.1                      |

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency.**

(\*) The times indicated will be longer or shorter as the temperature drops or rises.

Pursuant to European standard EN 1504-9 - General principles for the use of products and systems.

(See previous)

advise you not to apply the product near naked flames or in closed or badly ventilated rooms.

- We recommend ventilating the work environment and wearing a suitable mask.
- Mix the product thoroughly before use.
- Do not mix with water.
- Keep the containers sealed before use.
- Apply at temperatures between +5°C and +35°C. Do not apply in excessively hot or cold conditions. Do not apply when there is a risk of the temperature falling below +5°C while the painted film is drying. Do not apply on very hot surfaces because the film-forming process would be accelerated excessively with negative consequences on the product's cohesion and bonding to the surface.
- Do not apply in very damp conditions or if there is the risk of rain while the film is

still drying.

- Apply a second coat of product when the first coat is perfectly dry.
- Not suitable for foot traffic. The coating can be walked for periodic maintenance purposes only.
- After use clean the tools with water and, if the product has dried, it is recommended to remove it with white spirit or hot water.
- Not frost-proof, keep at temperatures above +5 °C.

## PACKAGING

20-liters Pail

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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