

# Novacem

## Acrylic anti-carbonation paint.

### GENERAL FEATURES

Novacem is a special covering satin paint for exterior made of acrylic resins in water dispersion, anti-mould. The product is certified CE and complies with EN 1504-2 which ensures the performance requirements of products for the repairing and protection of concrete. **Novacem** has an extremely high resistance against chemical and weathering agents. The nature of the binder, the well-balanced formulation and the special additives in it guarantee a strong anti-carbonation protection. Its special formulation and its innovative performances ensure a great protection, anti-carbonation of facades.

### USES

Novacem is recommended as a protective anti-carbonation solution for concrete and generally for all cement-based plasters.

### IDENTIFICATION FEATURES

Binder nature: water-based acrylic copolymer

Density:

**Novacem White** : 1,40 +/- 0,05 g/ml

**Novacem Base Deep**: 1,39 +/- 0,05 g/ml

**Novacem Base Accent**: 1,36 +/- 0,05 g/ml

### PERFORMANCE FEATURES

**Performance features related to CE mark:**

**UNI EN 1504-2 classification:** protection against penetration (PI) – covering (C) – system of attestation of conformity 4 (data referring to concrete, to a dry film thickness of 150 µm).

Permeability to CO<sub>2</sub> UNI EN 1062-6: Sd > 50 m (achievable with a thick of 135 µm).

Water-vapor permeability UNI EN ISO 7783-2: I Class, Sd < 5 m.

Water-permeability UNI EN 1062-3: w < 0,1 Kg/m<sup>2</sup>h<sup>0,5</sup>.

Adherence to direct traction UNI EN 1542: > 1 MPa.

**UNI EN 1062-1 classification (paints for exterior):**

Gloss EN ISO 2813: G<sub>3</sub> class (< 10 matt).

Dry film thickness ISO 3233: E<sub>2</sub> class (50-100 µm).

Grane EN ISO 1524: S<sub>1</sub> class (< 100 µm fine).

Transmittance of water vapor UNI EN ISO 7783-2: V<sub>2</sub> class (0,14 ≤ Sd < 1,4 m; medium).

Water permeability UNI EN 1062-3: W<sub>3</sub> class (W ≤ 0,1 low).

Resistance to cracking UNI EN 1062-7°: A<sub>0</sub> class (not relevant).

Permeability to CO<sub>2</sub> UNI EN 1062-6: C<sub>1</sub> class (< 5 g/m<sup>2</sup> d, Sd > 50 m).

Brightness: EN ISO 2813: class G<sub>3</sub> (< 10 matt).

Thickness of dry film ISO 3233: class E<sub>2</sub> (50-100 µm).

Grain EN ISO 1524: class S<sub>1</sub> (< 100 µm fine).

Water-vapor grade of transmission UNI EN ISO 7783-2: class V<sub>2</sub> (0,14 ≤ Sd < 1,4 m; medium).

Permeability of water UNI EN 1062-3: class W<sub>3</sub> (W ≤ 0,1 low).

### DILUTION

**Novacem**: 20% with water max.

### WARNINGS

Properly mix the products before the tinting phase and application cycle. Do not apply on fresh/new substrates; wait a maturation period of 4 weeks normally.

### SUBSTRATE PREPARATION AND APPLICATION

(T=25°C, UR=60%)

The substrate must be perfectly dry, dust-free, with no humidity and salt stains.

Remove any trace of disarming. Remove mechanically or with an high-pressure hydro washing system the damaged parts or those that are falling down, dirty residuals; then re-build missing parts with anti-shrink mortars. Before starting the Novacem application, wait the maturation period of the new substrate ended up.

On dry compact surface, apply one layer of **Decofix** (micronized neutral sealer), diluted, with brush or short-air roller depending on the type of substrate. Alternatively, it is possible to apply **Acricolor** (acrylic pigmented sealer), diluted, with brush.

On complete dry substrate, apply one layer of **Novacem** diluted (see dilution) with brush, short-air roller or spray gun.

Remove any imperfection or any accumulation of product.

After at least 12 hours, (T=25° C,UR=60%), apply a second layer of Novacem diluted (see dilution), with brush, short-air roller or spray-gun.

Drying time:48 hours depending on the type of substrate and its absorption rate (T=25° C,UR=60%).

### RECCOMENDATIONS

During the entire application process, the product must protected from cold and high heat changes.

Do not apply with air, substrate and product temperature lower than +5°C and higher than +35°C, nor under direct sun light, nor on superheated surfaces (even if already in shadow).

Environmental humidity must be <75%; substrate humidity must be <10%.

It is advisable to complete each work with materials from the same batch of production. When using multiple batches, it is recommended to remix the various products together to avoid slight differences in shading.

For the correct use, dilution and application of the products here mentioned, consult their respective technical data sheets.

During the preparation of the substrate and application of the products, it is recommended the correct use of tools and individual protective devices (dpi).

### TOOLS CLEANING

With Water immediately after use.

### YIELD

**Novacem**: 6-7 m<sup>2</sup>/l per each layer, depending on the type of substrate and its absorption rate.

### COLOURS

White and "Progetto Colore" and "Concrete Solution" color cards.

### PACKAGES

5 lt and 15 lt buckets.

### SHELF LIFE

The packaged product is guaranteed for 24 months, if stored in the original sealed package and at temperatures between +5°C and +35°C.

### SECURITY PROCEDURES

UE Directive 2004/42/CE:

Novacem (coatings for exterior walls of mineral substrate)

EU limit Value for Novacem (cat A/c): 40 g/l (2010)

Novacem contains 40 g/l max of VOC.

Harmful to aquatic organisms / May cause long-term damages in the aquatic environment / keep the product away from the children / Do not breathe any dust / Avoid contact with eyes and skin / In case of contact with eyes, wash them immediately with clean water and consult a doctor / Do not throw the product into drains / Use protective clothing and gloves / If swallowed, seek medical advice showing the doctor the container or the label.

Danger labeling under directives 67/548/CEE and 1999/45/CE and following amendments and adjustments. The product must be transported, used and stored according to current standards of hygiene and safety; let dry out the waste product completely and treat them as special/hazardous waste. For further information, please consult the Technical Data Sheet of each product.

NB- NOVACOLOR ensures that the information herein has been provided to the best of its experience and its technical and scientific knowledge, but cannot take any responsibility for the results obtained by using them as the conditions of application are beyond its control. We recommend to check the suitability of the product to each specific instance. This TDS cancels and replaces all previous editions.