



PRT.0117

PROTECH WAC

Anti-carbonation acrylic paint,
for concrete products

Customs Code

3209 1000

Packaging

- Pail 22 kg

Application

- Brush
- Paint roller
- Sprayer
- Low pressure airless nebulizer

Family
Protech

Product Lines
• **Building**
• **Infratech**

Components
Single-component

Type
Acrylic fixatives, paints and plasters

Functional Categories
• **Repair and restoration of concrete structures with thixotropic mortars**
• **Block repair of concrete works with free-flowing mortars**
• **Structural maintenance of bridges and viaducts**
• **Protective varnishing (painting)**

Appearance
Thick liquid

Certifications and legislations



EN 1504-2

Products and systems for the protection and repair of concrete structures -
Surface protection systems for concrete

General description

Anti-carbonation, protective, decorative paint, pigmented for whitewashing concrete surfaces; based on acrylic resins in aqueous emulsion, it forms a film that is impermeable to water, with very low permeability to carbon dioxide but high vapour permeability, anchored by specific adherence and diffusion. Perfect for protective coatings of infrastructure projects in concrete.

Dosage

Apply from 0.25 to 0.35 kg of PROTECH WAC per square metre of surface to be painted.

Fields of application

Painting of protective, decorative and anti-carbonation finish, for walls, façades, concrete products, plaster, masonry, natural stones, porous supports in general. Specific for painting industrial works and infrastructure artefacts: bridges, viaducts, large prefabricated, etc.

Basic features



Density:
1.5 kg/dm³



Nonflammable



Shelf-life:
12 months



Solvent-free



Temperature of use:
+ 5 / + 35 °C



To be applied in two coats



UV-resistant



Available **colours**
Request available colors

Technical specifications

Complete hardening (a 20°C): 6-8 h

Degree of water vapor transmission (EN ISO 7783-1): 0.1959 m

Density determination (UNI EN ISO 2811-1:2011): 1.556 kg/dm³

Determination of adhesion for direct traction (Fh) (UNI EN 1542): > 0.8 MPa

Determination of particle size (UNI EN 1062-1:2005): 50 µm

Determination of Volatile Materials (VOC) (UNI EN ISO 3251:2008): 10.95 g/l

Hard to touch (a 20°C): 1-2 h

Liquid water transmission (UNI EN 1062-3): 0.012 kg/(m² • h^{0.5})

Permeability to CO₂ Sd CO₂ (UNI EN 1062-6:2003): 740 m

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Thermogravimetric analysis - Inorganic charges (EN ISO 11358): 50 %

Thermogravimetric analysis - Polymeric fraction (EN ISO 11358): 22.3 %

Thermogravimetric analysis - Volatile fraction (EN ISO 11358): 27.7 %

Tools cleansing

- Water

Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Fiber-cement
- Rock walls

Substrate preparation

The surfaces of application should be clean, free of any soiling, crumbling and non-adhering parts, or non-absorbent, dust, pre-existing paints, etc. Degraded or uneven surfaces should be reclaimed with products of the family REPAR or with adhesive cement mortars packaged in situ, based on BOND HG and polypropylene fibres READYMESH PM-180.

Despite it is a good habit to apply an acrylic paint after preliminary treatment of the surfaces with the suitable reinforcing fixative PROTECH FIX AC, in the case of PROTECH WAC this operation is not strictly necessary.

Instructions for use

Apply the product in 2 coats, with a brush, roller or spray, diluting it with water according to the following dosages (% in weight):

- roller or brush = 10%
- spray = 15%-25%

Overcoat only after drying of the previous coat.

Storage and preservation

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.



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PROTECH WAC is produced/distributed by



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