

## RTA 549

### DATA SHEET

Acrylic render suitable for thermally insulated surfaces



Exteriors



Plastic containers



Metal trowel



Plastic trowel

### Composition

RTA 549 is a paste top coat made from special acrylic copolymers in aqueous emulsion, selected limestone aggregates, microfibres, pigments and specific additives to improve workability and adhesion. Moreover, special molecules give the product higher broad-spectrum protection against the growth of algae and mould species.

### Supply

- Buckets of approx. 25 kg. Buckets of 3 kg available in the following gradings: 1.0 mm (pastel and neutral bases) and 1.5 mm (pastel and neutral bases). Depending on the country of destination, some sales formats may not be available
- Tints obtainable using the ColorLife paint mixing system

### Use

RTA 549 is mainly used as a special protective and decorative coating for exteriors on walls insulated with the external thermal insulation composite system. The nature of the raw materials used means RTA 549 can also be applied on normal lime-cement plasters and renders when needing to obtain a finish with superior characteristics compared to traditional acrylic coatings.

### Substrate preparation

The surface to be coated must be free from dust and dirt, etc. Any traces of oil, grease, wax etc. must be removed beforehand. If the surfaces being decorated are in a state of deterioration due to stains and various types of persistent dirt, before beginning the decoration cycle, these should be treated with ACTIVE ONE solution for cleaning walls. Depending on the state of deterioration, the cleaning treatment may be repeated, with the addition of mechanical brushing.

#### External Thermal Insulation Composite System (ETICS)

Once the reinforced skim coat has cured, apply the FA 249 primer-undercoat to the dry and clean substrate. Before applying the RTA 549 coating, wait at least 16-24 hours after application of the primer.

#### Lime-cement plaster

Before applying the RTA 549 finish coating wait at least 28 days after application of the base coat plaster. The base coat, which RTA 549 is applied on, must be well finished.

For slightly crumbling or highly absorbent plasters/renders, it is recommended to apply an insulating alkali-resistant acrylic undercoat with high penetration, such as FA 249, diluted 1:6 with water. This treatment should always be performed when the surface to be coated has significant differences in absorption (guide strips, trims around doors and windows, etc.) or when you wish to extend the working time.

If applying RTA 549 on surfaces that are very smooth, non-porous, slippery or have poor absorption, it is recommended to apply a layer of pigmented FX 526 primer, either white or in a tone similar to that of the coating, instead of FA 249.

### Application

Apply using a metal trowel, making sure to distribute a uniform layer of material. The finish is applied subsequently, using a plastic trowel with circular movements.

## Warnings

- Product recommended for expert users.
- Always read the safety data sheet before use.
- Wear protective gloves and protective clothing, and in the event of contact with the skin wash with plenty of water and soap.
- Use water to clean tools.
- You must not release the water used to wash the tools and any product residues into the environment or into domestic drains. The container/product/wash water must be disposed of in accordance with national laws.
- Ensure all material for the job is taken from the same batch.
- Avoid application at temperatures below +5°C or above +30°C and with a relative humidity exceeding 75%.
- Avoid applying on surfaces exposed to direct sunlight or strong winds.
- Only apply RTA 549 on cured and dry plasters/adhesives/skim coats.
- Do not apply on damp masonry and/or during colder periods, as the plaster may detach and the paint may blister due to the accumulation of moisture inside.
- Avoid application on the same façade at different times.
- Do not apply when rising damp is present.
- The product dries physically by elimination of water. Unfavourable weather conditions may delay complete drying, with phenomena such as "streaking", washing away, stains, colour alterations, etc. possibly occurring.
- Exterior façades treated with RTA 549 must be protected against rain, precipitation and high atmospheric relative humidity, fog, during application and on the following drying days for at least 48-72 hours.
- The elements, above all intense exposure to UV radiation and humidity, may modify the surface layer of the coating over time, causing more or less evident variations in colour, depending on the colour applied.
- The product is not suitable for protection of horizontal or inclined exterior surfaces, where water may accumulate.
- The colour shades marked with the symbol \* in our Colour Chart contain organic dye: they are therefore potentially degradable, since they are sensitive to sunlight and to substrate alkalinity.
- All colours containing RB organic red colourant paste are excluded from BBA certification.
- Given the large number of mould species and different climatic conditions, in some cases the additives used may not guarantee complete disappearance or stop the spread of certain plant microorganisms over time.
- The possible presence of grains that are darker colour on the surface should not be considered a defect, rather is due to the natural variability of the granular mineral and natural sands used in RTA 549.
- Additional note regarding the product packaged in recycled plastic packaging, easily recognisable by the grey colour. The variability of the raw materials making up this type of packaging may make the mechanical strength and colour of the packaging inconsistent. Therefore, pay the utmost care when transporting and handling the product. Store protected from frost and direct sunlight, at a temperature between +5°C and +35°C.
- Images and graphic representations are purely indicative. The product characteristics and qualities indicated in the technical data sheet remain unchanged regardless of the external appearance of the container.
- The information provided on this technical datasheet is based on our technical and practical knowledge and experience. The technical data refer to the average characteristics of the basic product and are determined under controlled laboratory conditions. The variability of the natural raw materials available on the market and the tinting of the product can lead to slight deviations in the declared values, in the colour and in the aesthetic effects obtained. It is therefore necessary for the purchaser/user to personally verify, before application, the suitability of the product for the intended use, in particular when different lots of the same material are used in the same project/site (this is however not recommended as per point 6 of these warnings).

**RTA 549 must only be used as supplied, without the addition of other materials, except for the slight addition of water (up to 2% by weight) if the product has been stocked for several months.**

**An excessive dilution will affect product workability and cause a decline in its characteristics.**

## Storage

Protect from frost. Store at temperatures between +5 °C and +35 °C. If stored in a cool, dry place, away from sources of heat and sheltered from direct sunlight, in its sealed original packaging, the material has a shelf life of 12 months from the date of production stated on the label. Once the shelf life has expired, it must be disposed of in accordance with current legislation.

## Quality

RTA 549 is subjected to accurate and continuous checks in our laboratories. The raw materials used are rigorously selected and controlled.

## Technical Data

|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Specific weight                                                                                                                                                                                                                                                                                                                                                         | 1.80 ± 0.10 kg/l                                                                                             |
| Dilution                                                                                                                                                                                                                                                                                                                                                                | Ready-to-use                                                                                                 |
| <b>Classification EN 15824</b>                                                                                                                                                                                                                                                                                                                                          |                                                                                                              |
| Water vapour permeability (EN ISO 7783)                                                                                                                                                                                                                                                                                                                                 | Class V2, medium<br>(0.14 m ≤ Sd < 1.4 m)                                                                    |
| Liquid water absorption (EN 1062-3)                                                                                                                                                                                                                                                                                                                                     | Class W2, medium<br>(0.1 kg/m <sup>2</sup> ·h <sup>1/2</sup> < W ≤ 0.5 kg/m <sup>2</sup> ·h <sup>1/2</sup> ) |
| Adhesion (EN 1542)                                                                                                                                                                                                                                                                                                                                                      | ≥ 0.3 MPa                                                                                                    |
| Thermal conductivity (EN 1745)                                                                                                                                                                                                                                                                                                                                          | λ = 0.74 W/m·K (tabulated value)                                                                             |
| Reaction to fire (EN 13501-1)                                                                                                                                                                                                                                                                                                                                           | A2-s1,d0                                                                                                     |
| <b>Further technical characteristics</b>                                                                                                                                                                                                                                                                                                                                |                                                                                                              |
| Gradings                                                                                                                                                                                                                                                                                                                                                                | 1 - 1.5 - 2 mm                                                                                               |
| ETA European Technical Approval is available for using the product in building external thermal insulation systems                                                                                                                                                                                                                                                      |                                                                                                              |
| BBA Certificate available                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |
| Certification EPD ***                                                                                                                                                                                                                                                                                                                                                   | EPD-IES-0002903:004                                                                                          |
| EU limit value of VOC content (Directive 2004/42/EC)                                                                                                                                                                                                                                                                                                                    | Category A/c, WB: VOC maximum 40 g/l<br>Maximum VOC content in the product: < 40 g/l                         |
| (***) This product/service has a certified Environmental Product Declaration (EPD) giving information about the environmental performance, contents and recycling, which has been controlled and verified according to the requirements of the International EPD® System. More information is available at <a href="http://www.environdec.com">www.environdec.com</a> . |                                                                                                              |

## Consumption

|                                                                                                                                                |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Grading 1 mm</b>                                                                                                                            |                                     |
| - on fine render, base coats such as A 50, etc.                                                                                                | 2.0 - 2.3 kg/m <sup>2</sup> approx. |
| - on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.                                                  | 2.2 - 2.5 kg/m <sup>2</sup> approx. |
| <b>Grading 1.5 mm</b>                                                                                                                          |                                     |
| - on fine render, base coats such as A 50, etc.                                                                                                | 2.3 - 2.5 kg/m <sup>2</sup> approx. |
| - on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.                                                  | 2,4 - 2,7 kg/m <sup>2</sup> approx. |
| <b>Grading 2 mm</b>                                                                                                                            |                                     |
| - on fine render, base coats such as A 50, etc.                                                                                                | 2,6 - 2,9 kg/m <sup>2</sup> approx. |
| - on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.                                                  | 2,7 - 3,4 kg/m <sup>2</sup> approx. |
| The indicated consumption values are to be considered purely indicative. The actual consumption must be checked directly at the building site. |                                     |

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must verify that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: [area.tecnica@fassabortolo.com](mailto:area.tecnica@fassabortolo.com), ES: [asistencia.tecnica@fassabortolo.com](mailto:asistencia.tecnica@fassabortolo.com), PT: [asistencia.tecnica@fassabortolo.com](mailto:asistencia.tecnica@fassabortolo.com), FR: [bureau.technique@fassabortolo.fr](mailto:bureau.technique@fassabortolo.fr), UK: [technical.assistance@fassabortolo.com](mailto:technical.assistance@fassabortolo.com)).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.