

RTA 549

DATA SHEET

Acrylic coating for thermall insulated walls



Exteriors



Plastic containers



Metal trowel



Plastic trowel

Composition

RTA 549 is a paste top coat made from special acrylic copolymers in aqueous emulsion, graded limestone aggregate, microfibres, pigments and specific additives to improve improve workability and adhesion.

Moreover, special molecules give the product higher broad-spectrum protection against the growth of algae and mould species.

Supply

- Containers of approx. 25 kg
- Tints: a selection from our 365 A YEAR OF COLORS swatchbook

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 RX 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 consult the safety data sheet before use.
- Wear protective gloves and garments, and in the event of contact with the skin wash with plenty of water and soap.
- Use water to clean tools.
- Tool wash water and any product residues must not be released into the environment or discharged into the domestic sewage system. The recipient/product/wash water must be disposed of in accordance with national laws.
- Use all the material necessary for the work from the same batch.
- Avoid application at temperatures below +5°C or above +30°C and with a relative humidity higher than 75%.
- Avoid application on surfaces in full sunlight or with strong winds.
- Only apply RTA 549 on cured and dry plasters/adhesives/skim coats.
- Do not apply on damp masonry and/or in colder periods, as the plaster may detach and the paint may blister due to the accumulation of moisture inside.
- Avoid application in the presence of rising damp.
- Avoid application on the same façade at different times.
- Exterior façades coated with RTA 549, during application and on the days after drying, must be protected against rain or other precipitation and high relative humidity in the atmosphere (fog) for at least 48-72 hours, to prevent phenomena such as "streaking", washing away, stains, colour alterations, etc.
- 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 micro organisms over time.
- 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.
- This product is packaged in recycled plastic packaging. The variability of the raw materials making up this type of packaging may mean that the mechanical strength and colour of the packaging is 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.
- The images and illustrations are purely indicative. The characteristics and qualities of the product specified on the datasheet 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 job/site (this is however not recommended as per point 6 of these warnings).

RTA 549 must only be used in its original state, 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.

Storage

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

Quality

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

Technical Data

Specific weight	1.70-1.90 kg/l
Dilution	if necessary, add up to 2% water
Classification EN 15824	
Water vapour permeability (EN ISO 7783)	Class V2, medium ($0.14 \text{ m} \leq S_d < 1.4 \text{ m}$)
Liquid water absorption (EN 1062-3)	Class W2, medium ($0.1 \text{ kg/m}^2 \cdot \text{h}^{1/2} < W \leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{1/2}$)
Adhesion (EN 1542)	$\geq 0.3 \text{ MPa}$
Thermal conductivity (EN 1745)	$\lambda = 0.74 \text{ W/m} \cdot \text{K}$ (tabulated value)
Reaction to fire (EN 13501-1)	A2-s1,d0
Further technical characteristics	
Gradings	1 - 1.5 - 2
ETA European Technical Approval is available for using the product in building external thermal insulation systems	
BBA Certificate available	
EU limit value of VOC content (Directive 2004/42/EC)	Category A/c, WB: max VOC 40 g/l Maximum VOC content in the product: < 40 g/l

Consumption

Grading 1 mm	
- on fine render, base coats such as A 50, etc.	approx. 2.0-2.3 kg/m ²
- on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.	approx. 2.2-2.5 kg/m ²
Grading 1.5 mm	
- on fine render, base coats such as A 50, etc.	approx. 2.3-2.5 kg/m ²
- on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.	approx. 2.4-2.7 kg/m ²
Grading 2 mm	
- on fine render, base coats such as A 50, etc.	approx. 2.6-2.9 kg/m ²
- on float-smoothed base coat render such as KI 7, KC 1, and on base coats such as A 96, etc.	approx. 2.7-3.4 kg/m ²

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 check 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, ES: asistencia.tecnica@fassabortolo.com, PT: assistencia.tecnica@fassabortolo.com, FR: bureau.technique@fassabortolo.fr, UK: 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.