

Edel-Rost

Exterior and interior

2-phase special system to create genuine rust on surfaces.

Phase I: Base material

Phase II: Activator

General description

Type of material:	Water-based special coating for virtually any substrates to create a genuine rusty surface.
Applications:	Thick coat metal effect colouring system comprising Phase I Base material and Phase II Activator. May be applied to virtually any substrate imaginable. May be applied using various tools, consistently lending the processed surface a unique and distinctive appearance.
Product properties:	Apply Jansen Edel-Rost wherever that individual rusty look is required inside or outside. After at least 3 Phase I coatings, the treated surface may also be used as a magnet board. A top coat (see final coat) may be applied for stain protection on interior surfaces. To achieve the typical ongoing slight change of appearance of exterior surfaces, we recommend allowing such surfaces to continue weathering. The activator may also be used to individually rust bare carbon steel or iron. Every surface is unique.
Shades:	Phase I (base material): Dark grey Phase II (Activator): Clear, slightly bluish Jansen Superior Wax colourless 2:1 (Superwax to water)
Packaging sizes:	Phase I (base material): 1.8 kg, 8 kg Phase II (Activator): 1 kg (Top coat) Jansen Superior Wax colourless: 750 ml and 2.5 litres

Technical data

Binder base:	Phase I (base material): Special acrylate with iron particles
Density:	Phase I: ca. 2.240 g/cm ³ Phase II: ca. 1.020 g/cm ³
Degree of gloss:	Phase I: matte
Tints:	Phase I: Up to 5%, with tint concentrate
Viscosity:	Phase I (base material): thixotropic Phase II (Activator): thixotropic

Thinner:	Phase I: Apply undiluted Phase II: Do not dilute the activator. For larger areas and/or temperatures > 23°C, surfaces to coat may first be moistened with water. Jansen Superior Wax colourless: 2 parts wax, 1 part water
Application temperature:	Maintain a minimum temperature of + 7°C. The ideal application temperature is between 15°C and 23°C. Varying temperatures, coating thicknesses and weather conditions may change drying times considerably.
Drying:	(20°C, 60% rel. humidity) Phase I (base material): Dust dry after approx. 30 minutes Dry to the touch after approx. 2 – 3 hours Ready for overcoating after 5 – 6 hours Phase II (Activator): Ready for overcoating: 16 hours after last Phase I process Activation should be max. 1 week after applying the base material, otherwise Phase I may have set too much already.
Spreading rate:	Phase I: ca. 2.5 m ² /kg for single application Phase II: ca. 10 m ² /kg for single application
Giscode for coating materials:	Phase I: BSW20

Method of application

Substrate preparation:

All substrates must be clean, dry and free of rust, grease and dust. Surface pollution reduces adhesion and must be meticulously removed. Alkaline substrates, such as fresh plaster and also alkaline paints (e.g. silicate-based paints) must be first neutralised - by means of application of a fluorosilicate if necessary – otherwise the phase II (activator) will not correctly undergo the required chemical reaction.

Gypsum plaster:

New gypsum plaster should be at least 4 weeks old and fully dry. A diluted pre-primer should be applied to render the substrate uniformly absorbent.

Abrasion resistant interior paints or facade paints:

Clean beforehand, as needed.

Washable interior paints:

Strengthen with a pre-primer. Completely remove all coats of washable paint.

Brickwork:

Apply a pre-primer to render the substrate uniformly absorbent.

Wall tiles:

Clean thoroughly with sugar soap. Apply Jansen 2-component Multiprimer GH 20 as base coat.

Bare iron or carbon steel:

Treat with the activator (Phase II) only to create that unique rusty look.

Zinc substrates:

Degrease with ammoniac surfactant wash (refer BFS [German Federal Commission for protection of paint and material assets] Data Sheet no. 5) and completely remove whitish corrosion products. Blasting (sweeping) may be necessary in special cases.

Base coat: Jansen Aqua Ultra-Primer.

Aluminium:

Roughen and clean (see BFS Data Sheet no. 6). Anodised aluminium cannot be coated.

Base coat: Jansen Aqua Ultra-Primer.

Wood or wood products:

Exterior raw wood should, if necessary, be pre-painted with Jansen wood protection primer/Woodprimer WV (observe Technical Data Sheet).

Interior raw wood and wood products: prime with a diluted coating (10% water) base material (Phase I)

Formica surfaces:

Clean thoroughly and roughen.

Apply Jansen 2-component Multiprimer GH 20 as base coat.

- Substrate preparation: Furniture surfaces:
Clean thoroughly and roughen.
Base coat: Jansen Aqua Ultra-Primer.
Old coatings on acrylate or alkyd resin:
Check old coatings for adhesion by means of cross-cut and pull-off test (VOB [German Construction Contract Procedures], Part C, DIN 18363). Thoroughly clean and roughen sound old coatings. Completely remove damaged and peeling old coatings.
- Ensure that the preparation of substrates and the coating itself are state of the art. Please in this respect also note the BFS [German Federal Commission for protection of paint and material assets] Data Sheets and the VOB [German Construction Contract Procedures], Part C, DIN 18363, Painting and Coating.
- Coating structure: Jansen Edel-Rost is supplied ready-to-use. The base material (Phase I) may be dilute with up to 10% water, depending on substrate absorbency.
The base material and activator should only be applied with a brush or roller.
If required, Jansen superior wax colourless, should be sprayed on (thin coating) to keep the rusty look as light as possible.
A trial coating should in any event be applied beforehand.
Since each surface will be unique it should be treated by just one person per work step.
Rusty look:
2 Phase I coatings, each at ca. 400 g/m².
Rusty look - also as magnetic memo board:
3 Phase I coatings or more, ca. 400 g/m² each
- The activator (Phase II) is supplied ready-to-use (gel-like) and must not be diluted. The surface to activate must be kept moist and glossy with activator for at least 30 minutes. Ca. 250 ml of activator should be applied per m² to achieve the lightest possible rusty look. If necessary, moisten the surface with water prior to activation. For a more intense rusty appearance, activate again on the next day, applying considerably more activator than the day before. The rusty effect will become lighter as the activator is applied more often. A single reactivation on the following day will create a darker rusty look.
- Do not use directly from the container. Do not return residues into the container (loss of reaction).
- Special tip: A special effect will be achieved by sanding a dried rusty area with a sander and fine sandpaper or a fine abrasive sheet. The rusty look will remain in depressions, whilst the metal powder in higher areas will be polished bright.

Carry out a trial coating before actual application.

If several containers are used to apply the final coat, ensure batch uniformity.

Final coating: To achieve an easy-to-clean and abrasion resistant surface, apply (spray) Jansen superior wax colourless. 2 parts superior wax, 1 part water. We do not recommend a finishing varnish for exterior areas exposed to the weather. Always bear in mind that sunlight will change the surface and rain will lift rust particles from the coated surface and deposit them on lower areas.

Types of application: Brushing: Use a brush with natural bristles.
Rolling: Use a long or short pile roller, depending on the required structure. Do not re-use equipment for other painting jobs.
Spraying: Apply the finishing varnish coating thinly only.

Type	Added water	Pneumatic pressure	Nozzle
High pressure	0%	3.5 – 4 bar	1.2 – 1.5 mm
Fine coating	0%	0.48 bar	1.8 mm

The base material should not be sprayed on since this will severely wear out the nozzles and contaminate the spraying equipment with rust particles.

The above tables were compiled under controlled conditions. Larger areas may require nozzles with larger bores. This must be tested on the object itself.

Cleaning your tools: Immediately if possible, with water. Clean intermittently if used for longer or prior to breaks. Do not allow paint to dry. Clean spraying equipment very thoroughly before and after use, since residues may be incompatible with other products. Thoroughly clean containers used for cleaning. Jansen Edel-Rost Phase I contains metal dust (risk of rusting).

Storage: Cool, dry and protected from frost. Seal opened container well and turn upside down.

VOC value: EU limit for the base material (Cat. A/a):
30 g/l VOC (2010).
Phase I contains max. 30 g/l VOC.
EU limit for the activator: (Cat. A/I):
200 g/l VOC (2010).
Phase II contains max. 5 g/l VOC.

Marking: Please see our updated Safety Data Sheet on the Internet at www.jansen.de

The technical information has been compiled based on state-of-the-art technology. No liability will, however, be accepted for the general validity of individual recommendations, since actual application and processing are not under our control and also since the variable nature of substrates would require a specific method of application for each case, considering specific technical and practical aspects. These recommendations will not absolve the customer from his responsibility to test the supplier's products for suitability for his intended use. The "General Delivery and Payment Conditions of the Paint Industry" as per recommendations approved by the Federal Cartel Office on 01 January 2018, shall be applicable. The publication of this Data Sheet shall render all previous data sheets for this product invalid.

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