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 Aqua isolating and adhesive primer top coat: transparent
Packaging sizes:	Phase I (base material): 1.8 kg, 8 kg Phase II (Activator): 1 kg (Top coat) Jansen Aqua Insulating and Adhesive Primer: 375 ml, 750 ml and 2.5 litres

Technical data

Binder base:	Phase I (base material): Special acrylate with iron particles Aqua Insulating and Adhesive Primer, clear (top coat): cationic dispersion
Density:	Phase I: ca. 2.240 g/cm^3 Phase II: ca. 1.020 g/cm^3 Aqua Insulating and Adhesive Primer: ca. 1.030 g/cm^3
Degree of gloss:	Phase I: matte Aqua Insulating and Adhesive Primer, clear: semi-gloss

Tints:	Phase I: Up to 5%, with tint concentrate The Phase I base material may also be mixed 1:1 with Jansen Aqua Metal Décor Silver to create the appearance of a rusting silver surface.
Viscosity:	Phase I (base material): thixotropic Phase II (Activator): thixotropic Aqua Insulating and Adhesive Primer, clear (top coat): liquid
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. Aqua Insulating and Adhesive Primer, clear: Use undiluted for spraying, dilute with water 20% for rolling.
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. **Aqua Insulating and Adhesive Primer, clear (top coat):** Dust dry after approx. 30 minutes Dry to the touch after approx. 2 – 3 hours Ready for working over after 5 – 6 hours
Spreading rate:	Phase I: ca. 2.5 m^2/kg for single application Phase II: ca. 10 m^2/kg for single application Aqua Insulating and Adhesive Primer: ca. 10 - 20 m^2/l per coat
Giscode for coating materials:	Phase I and Aqua Insulating and Adhesive Primer: 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 Acrylic Multi-primer.

Aluminium:
Roughen and clean (see BFS Data Sheet no. 6). Anodised aluminium cannot be coated.
Base coat: Jansen Acrylic Multi-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 Acrylic Multi-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 Aqua Insulating and Adhesive Primer, clear, should be sprayed o (thin coating) to keep the rusty look as light as possible. If only rolling on is possible then dilute the Aqua Insulating and Adhesive Primer
with 20% water. This will darken the appearance and slight differences in surface gloss may appear. 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/m^2.
Rusty look - also as magnetic memo board:
3 Phase I coatings or more, ca. 400 g/m^2 each

The activator (Phase II) is supplied ready-to-use (gel-like) and must not be diluted. T 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 m^2 to achieve t 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).
Edel-Rost sampling sets are available to familiarise yourself with the product or to even coat a smaller surface.

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 Aqua Insulating and Adhesive Primer, clear. Apply 1 spraying pass at max. 50 ml/m^2 or 1 rolling pass at max. 80 ml/ m^2 i.e. thin. 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/l): 200 g/l VOC (2010). Phase II contains max. 5 g/l VOC. EU limit for finishing varnish (Cat. A/e): 30 g/l VOC (2010). The Aqua Insulating and Adhesive Primer contain max. 30 g/l VOC.

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

VAT ID no.: DE147923895

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