

BESSEMER[®] AQUA R PRIMER

Water-based, micaceous adhesion and rust protection primer

2541-a November 2024

Description

Product type: BESSEMER AQUA R PRIMER is a water-based adhesion and rust protection primer with mica. Suitable for new or weathered galvanized substrates without rust, as well as aluminium, titanium zinc (Rheinzink), copper and stainless steel. Especially recommended for sheet metal roofs and industrial buildings.

Field of application: BESSEMER AQUA R PRIMER is ideally suited as a primer for sheet steel, non-ferrous metals, iron and steel structures thanks to the use of special active rust protection pigments. It is also suitable for use near oil-fired chimneys and in aggressive industrial environments. The primer is resistant to flue gas and chemicals, offers excellent adhesion to the substrate and is permanently elastic.

Approvals Approved as a system according to MA 39 — Magistratsabteilung 39, City of Vienna (Testing Institute for Materials)

Colour: 224 orange red, 724 grey, 924 opal white

Packaging: 2,5 l and 10 l, in metal containers

Technical data

Binder base: water-thinnable acrylate resins

Density: 1.3-1.5 g/cm³ (20°C), depending on colour

Flash point: non-flammable

Dry residue in weight: approximately 60 %

Recommended dry film thickness: 35-60 µm

Viscosity: thixotropic

Drying time: (at 23°C, 50% relative humidity, and about 140 µm wet film thickness)

Dry to handle: after approximately 1 hour

Can be overpainted: after approximately 8 hours

Drying time increases proportionally with lower temperatures and/or higher humidity levels.

Storage: 3 years when stored between +5°C and +25°C in originally sealed container.

Application methods:

Application methods Brushing, rolling, spraying (airless).

Surface preparation: The substrate must be checked for load-bearing capacity and suitability for recoating, then prepared accordingly:

Uncoated surfaces: The substrate must be evaluated based on the type of metal and its degree of exposure to atmospheric agents, with particular attention to surface contaminants. Surfaces to be painted must be cleaned of any type of dirt, including dust, mortar residues, and construction debris. Grease, soot, and any bitumen residues should be removed using BESSEMER CLEAN W15. Fume deposits and corrosion products must be removed.

Previously coated surfaces: The existing coating must be evaluated for its suitability and potential for repainting. Particular attention should be given to its thickness, adhesion, load-bearing capacity, product quality, painting system, and the type of metal substrate. Surfaces to be painted must be free from any type of contamination, such as dust, mortar residues, and construction debris. Rust, soot, and non-adherent paints, as well as other impurities and dust, must be carefully removed.

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Recommended coating systems:

<u>Uncoated surfaces:</u> (uncoated metallic substrates)	Pre-treat deep rust with BESSEMER R CONVERTER. Then: 1 BESSEMER AQUA R PRIMER
<u>Previously coated surfaces:</u> (on existing coatings)	For bare spots where there is no existing coating, pre-treat deep rust with BESSEMER R CONVERTER. Then: 1 BESSEMER AQUA R PRIMER. <i>(If the existing coating shows only minor damage, full-surface priming may be omitted — see technical data sheet.)</i>

Guideline values for spray application:

Nozzle	14
Pressure	70 bar
Distance	15 – 20 cm

Instructions for use: Stir well before use. Do not apply at temperatures below +10°C (air and substrate) and/or at relative humidity above 80%. Do not apply under extreme heat.

Please note that no more than two coats of BESSEMER AQUA (R PRIMER and SUPER) must be applied in one coating cycle (take care with overlaps in the seam area).

Consumption: 140–200 g/m² (6–10 m²/l) per coat, resulting in a dry film thickness of 40–60 µm;

Adhesion promoter primer for BESSEMER VB-SUPER: 120–160 g/m² (9–11 m²/l) per coat, resulting in a dry film thickness of 25–45 µm

Consumption Airless application: 140-200 g/m² (6-10 m²/l) result in approx. 40-60 µm dry film thickness per layer

Adhesion promoter primer for BESSEMER VB-SUPER: 120–160 g/m² (9–11 m²/l) per coat, resulting in a dry film thickness of 25–45 µm

Recoatable with: With BESSEMER AQUA SUPER as top coat. When used as an adhesion primer on non-weathered metallic surfaces, with BESSEMER VB SUPER.

Dilution: With maximum 5% water

Tool Cleaning: Immediately after use with WATER.

Special Notes

For detailed information on disposal, water hazard class, VbF and ADR/RID, please refer to the safety data sheet, available at <https://myamonn.amonncolor.com/>.

The information provided in this data sheet reflects the current state of technical knowledge and is intended for guidance only. The recommended systems and substrates are given as examples. Suitability must be assessed on a case-by-case basis. Should you have any questions, please contact our technical support. Liability is governed by our General Terms and Conditions of Sale and Delivery. This data sheet supersedes and replaces all previous editions.