

BESSEMER® AQUA SUPER

Water based top coat with addition of iron mica

2540-a November 2024

Description

Product type: BESSEMER AQUA SUPER is a water-based topcoat containing mica, especially for sheet metal roofs and industrial buildings. Ideal in the system for non-weathered sheet metal and for renovation coatings when a low-stress coating is required.

Field of application: BESSEMER AQUA SUPER is a single-component roof coating for metal substrates. Also applicable in the vicinity of oil-fired chimneys and aggressive industrial atmospheres. The roof coating is resistant to flue gas and chemicals, has excellent adhesion to the substrate and is permanently elastic. BESSEMER AQUA SUPER contains active rust protection pigments, therefore also ideally suited for the top coating of iron and steel structures indoors and outdoors.

Approvals Approved as a system according to MA 39 — Magistratsabteilung 39, City of Vienna (Testing Institute for Materials) The system complies with the ecological specifications of Öko Kauf Wien.

Colours: RAL 3009, 6005, 6011, 6021, 7001, 7005, 7016, 7035, 8004, 8014, 17 Prefab brown, 28 Testa di Moro, 93 White, 95 Black and in many shades tintable via COLORMIX SYSTEM - *(The shade White 93 and light shades are given a characteristic grey tone by the micaceous iron oxide in the Aqua Super System)*

Packaging: 1 l, 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: 40-60 µm per coat

Viscosity: thixotropic

Drying time: (at 23°C, 50% relative humidity, and about 100 µm wet film thickness)

Dry to handle: after approx. 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. Seal partially used containers well and stir thoroughly before use.

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.

Recommended coating systems:

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| Uncoated surfaces: (uncoated metallic, non-weathered substrates without rust) | 1x BESSEMER AQUA R PRIMER 1x BESSEMER AQUA SUPER |
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| <p><u>Uncoated surfaces:</u> (uncoated metallic, weathered substrates)</p> | <p>- <u>Exclusively water-based</u> Prime core rust with BESSEMER R CONVERTER Then: 1x BESSEMER AQUA R PRIMER 1x BESSEMER AQUA SUPER</p> <p>Or</p> <p>- <u>Solvent - water based mixed</u> Prime core rust with BESSEMER RS PRIMER beforehand Then: 1x BESSEMER RS GRUND 1x BESSEMER AQUA SUPER</p> |
| <p><u>Previously coated surfaces</u> (on existing coatings)</p> | <p>- <u>Exclusively water-based</u> For bare areas where there is no old paint: Treat core rust beforehand with BESSEMER R CONVERTER Then: 1x BESSEMER AQUA R PRIMER. 1x BESSEMER AQUA SUPER</p> <p>Or</p> <p>- <u>Solvent - water based mixed</u> As for uncoated surfaces: (uncoated metallic, weathered substrates)</p> <p><i>For older coatings with only minor damage, complete substrate preparation may be omitted—refer to the technical data sheet for details.</i></p> |

Guideline values for spray application:

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| Nozzle | 14" |
| Pressure | 70 bar |
| Distance | 15-20 cm |

Instructions for use: Do not apply at temperatures below +10°C (air and substrate temperature) and/or high humidity (more than 80% relative). Do not apply under extreme heat. Please note that a maximum of two coats of BESSEMER AQUA (R PRIMER and SUPER) are applied in one coating cycle (be careful with overlaps in the rebate area!) The color shades appear slightly different from the RAL color standard due to the micaceous iron oxide contained in this product.

Consumption by brush: 140–20 g/m² (6–10 m²/l) per coat, resulting in a dry film thickness of 40–60 µm

Consumption by airless application: 200–300 g/m² (5–7 m²/l) per coat, resulting in a dry film thickness of 40–60 µm

Thinner: 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. . his data sheet supersedes and replaces all previous editions.