



BioCoat 3.0 Metal Perma

• Aluminium rims • Tank equipment and industrial plants •
Traffic signs • Marble and granite (polished)

TOOLS

Biocoat 3.0 Metal Perma is supplied ready-to-use.
Depending on the substrate Biocoat 3.0 Metal Perma can
be applied with microfiber applicators or paint rollers.

The product is also suitable for spray application.

Spray application:

Process: HVLP-compressed air Spray gun: e.g. SATA
minijet HVLP Working pressure: ca. 2 – 3 bar Nozzles: 0.8
– 1.3 mm
The spray gun can be cleaned with n-butyl acetate.

TECHNICAL DATA

Appearance: colorless to pale yellow liquid Density: ca.
0.92 g/cm³ Binder base: organic polysilazane Solvent
base: n-butyl acetate Flash point: < 21 °C Shelf life: 12
months from delivery date, at 20 °C Container size: 8 liter
alu bottle containing 5 liters

APPLICATION INSTRUCTIONS

Trained personnel should apply the product only. Test on a
small area or apply a test coat before application.

CONDITION OF SUBSTRATE

The substrate to be coated must be clean, grease-free and
absolutely dry. The use of Bioclean Liquid would be
recommended. Areas which are difficult to reach, such as
cavities or drainage channels etc. must be dried additionally
with absorbent cloths or blown dry with compressed air. On
contact with a damp substrate surface, Biocoat 3.0 Metal
Perma reacts prematurely and cannot form a permanent
seal.

The substrate temperature must be between + 5 °C and +
30 °C, the relative humidity at 30 % - 80 %.

APPLICATION

Biocoat 3.0 Metal Perma must be applied at an ambient
temperature of at least + 5°C and a relative humidity of 30
% - 80 %. Avoid direct sunlight! Apply the coating in dry
conditions and never in rain. The coating is applied with an
applicator. Any mistakes can be rectified within approx. 10
min of application. After this the repellent effect of Biocoat
3.0 Metal Perma makes it impossible to apply another coat.
The average coverage is ca 12 ml/m² and this should not
be significantly exceeded. During application, only small
quantities should be decanted from the original container
into the application container. Residues of unused Biocoat
3.0 Metal Perma should not be returned from the
application container to the original container. Traces of
water in the applicator should also be avoided. Applicators
dampened with water should not be used. If dirt appears on
the applicators during coating, they should be replaced with
clean applicators to avoid dirt entering the Biocoat 3.0
Metal Perma coating. The applicators cannot be reused
once the coating has been applied. If the solution in the
application container solidifies or a deposit forms, it can no
longer be used. Solutions that are no longer useable must
be disposed of properly. Biocoat 3.0 Metal Perma is
dry-to-touch after about one hour. The recommended
curing conditions (until water resistant) are:

• Room temperature: 8 – 12 hours • 80 °C: two hours
• 130 °C – 180 °C: one hour

The Biocoat 3.0 Metal Perma coating is fully effective after
5 – 7 days' curing at room temperature. On metal surfaces
such as aluminum, steel and stainless steel, curing at >
80°C is recommended to achieve optimum adhesion to the
substrate.

PROPERTIES

- Permanent clear coating
- Excellent protection against graffiti
- Exceptional corrosion protection
- Easy-to-Clean
- Excellent adhesion to most substrates
- High UV and chemical resistance
- Economical
- Easy to apply
- Cures at room temperature
- Fluorine-free

Biocoat 3.0 Metal Perma is a clear, ready-to-use coating
that protects non-absorbent surfaces against graffiti, dirt,
weathering and corrosion. Biocoat 3.0 Metal Perma forms a
permanent barrier layer that bonds chemically with the
substrate and cures at room temperature with atmospheric
humidity. The surface protected with Biocoat 3.0 Metal
Perma can be cleaned repeatedly without reapplying the
product.

USE

Biocoat 3.0 Metal Perma is particularly suitable for smooth,
non-absorbent surfaces, such as one- or two-component
paints, polyester paints, GRP surfaces, but furthermore
particularly for ceramics, glass and metal surfaces like
aluminium, zinc, stainless steel, copper and several alloys
(e.g. brass and bronze).



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SAFETY INSTRUCTIONS

The instructions on the accompanying Safety Data Sheet must always be followed.

- Wear solvent-resistant gloves (e.g. butyl or nitrile rubber gloves) when applying the product.
- Wear suitable eye protection (safety glasses).
- Wearing a half-mask with filter types A2 B2 E2 K2 Hg/ P3 when applying the product is recommended.
- The solution must not be mixed or diluted with other solvents.
- Biocoat 3.0 Metal Perma must be kept out of reach of children.
- The product must be stored in a cool, dry place (< 25°C).
- Open the containers regularly, to avoid pressure buildup (ammonia).

CLEANING AND GRAFFITI REMOVAL

Surfaces coated with Biocoat 3.0 Metal Perma should be cleaned with cleaners in the pH range 3 – 12. Strong (mineral) acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean substrates coated with Biocoat 3.0 Metal Perma.

TECHNICAL SERVICE

Our Application Department is available to answer technical questions on performance, use and chemical specifications.