

Technical Data Sheet

DYPHOX Primer A09V

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Product description: DYPHOX Primer A09 is a solvent-based, silane-based adhesion promotor. DYPHOX Primer A09 is one part of the DYPHOX coating system and is required for plastic surfaces, where the antimicrobial coating DYPHOX Universal 510-R is subsequently to be applied.

Chemical and physical properties

DYPHOX	Primer A09V
Density [g/ml] at 25 °C (77 °F)	0.79
Consumption values for 1 m ² [mL]	25
Solid content [vol.%]	0.8 – 1.0
Water content [vol. %]	0
Min. shelf life at 25 °C (77 °F) [months]	24
Flash point [°C]	15 (59 °F)
Recommended layer thickness [µm]	< 0.5
VOC portion [g/L]	780
Duration of the antibacterial effect	Not applicable
Gloss level	< 3 gloss
Colour and appearance	Clear, transparent

This information is intended as a guide and is not intended to create specifications.

Surface preparation

Surfaces must be dry and free of grease and dust before application of the product. The surfaces are cleaned with DYPHOX Cleaner A02 and a microfibre cloth. Clean stubborn dirt before cleaning with silicone remover. Before beginning with the coating, allow the cleaned surface to dry for 3 minutes.

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Substrates

Before coating with DYPHOX, the substrate must be tested for compatibility in an inconspicuous area. When coating some substrates, DYPHOX Primer A09V must also be used to promote adhesion (see table). The following substrates require a primer:

Substrate	Examples	Type	Primer A09V
Metal	Stainless steel, aluminium	Metal	No
Mineral materials	Corian, Hi-Macs	Hard plastics	Yes
Coating materials	Melamine	Hard coating	Yes
Polyolefin polymers	PE, PP	Medium-hard plastics	Yes
Polystyrene copolymers	ABS, ASA, SAN	Hard plastics	Yes
Elastic polymers	Flexible PVC, TPU	Soft plastics	Yes
Rigid plastics	Rigid PVC, PC, PS	Hard plastics	Yes
Glass	Borosilicate	Glasses	No

The coating cannot be applied to acrylic glass, chrome, Teflon (PTFE) or fluorinated plastics (e.g. PVF, fluororubbers). There is also no adhesion on special treated surfaces such as anti-stick or anti-fingerprint coatings and surfaces with lotus effect. We do not recommend to coat high-gloss surfaces.

Drying times at 20 °C (68 °F) guideline values

DYPHOX	Primer A09V
Dust-dry [min]	3

These drying parameters are guide values. They can vary greatly depending on the used amount, substrate, humidity and ambient temperature. At higher temperatures, the drying times are reduced depending on the ambient conditions. The relative humidity should be between 20 % and 70 % during processing.

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Protection



When handling the product, wear chemical protective gloves and protective goggles. In addition, wear a respiratory protective mask (FFP2) when using the spray bottles to coat the keyboards. For further information please refer to the Safety Data Sheet.



Storage / shelf life

Withdraw the liquid from the containers by pouring or pumping directly onto a cloth as described in the coating instructions. Do not touch the opening, even with a rag or cloth. In addition, close the containers immediately after use.

Important: Remainders from the application bottle must not be poured back into the original container.

Store the tightly closed containers in a cool ($\leq 25\text{ }^{\circ}\text{C}$ / $77\text{ }^{\circ}\text{F}$), dry place. Protect from light and direct sunlight, heat and frost. Under ideal storage conditions, the shelf life is at least 24 months in unopened original packaging.

Use up opened packages within 4 months after first opening.

Notes!




- Complete data on inhalation toxicity are not available.
- It is not allowed to apply the product with spray guns (e.g. electro spray) or similar technical equipment that produces mist. There is a risk of fire and explosion! So follow the coating instruction.
- Coated surfaces may not be cleaned for at least 24 hours with any commercially available cleaning agent.
- In some cases, the use of harsher cleaning agents will damage the coating. Do not use abrasive cleaning agents (e.g. scouring milk) or superalkaline ($\text{pH} > 10$) and strongly acidic ($\text{pH} < 3$) cleaners.



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The information in this data sheet has been compiled in line with the latest state of the art of technology. All information has been provided to the best of our knowledge. However, any liability for the general validity of the individual recommendations must be excluded, as the application and processing methods are beyond our control. We therefore accept no liability or guarantee for this and reserve the right to make technical changes at any time.

Please refer to our Safety Data Sheet for the safety characteristics.

These instructions lose their validity after publication of a new edition by us and are only valid in combination with our safety data sheet.