

Guidelines for transport, storage and processing conditions of wheel coatings

Transport/storage of powder coatings

We recommend temperatures of 5 - 25°C for powder coatings and 5 - 23°C for acrylic powder the transport and storage in closed original containers.

Under these conditions, the systems can be used up to the 'use-by date' indicated on the product label. Storage in direct sunlight must be avoided in any case.

Storage at higher temperatures (up to 30°C) or beyond the specified period does not necessarily mean that the powder coating is rendered useless. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.

The incoming goods inspection must be carried out using an insertion thermometer in the material on the vehicle. A measurement on the outside of the container (carton/BigBag) does not provide a meaningful indicator.

In the event of a deviation, complete the checklist (Appendix 1) in full and send it to FreiLacke immediately.

Processing of powder coatings

It is recommended to condition the air balance for processing. We recommend a processing window of max.70% rel. humidity and 15 - 25°C for powder coatings or 15 - 23°C for acrylic powder. Briefly exceeding the ambient temperature of up to 30 °C does not necessarily have any impact on the quality of the powder coatings. Exceeding 25 °C for prolonged periods can result in increased sintering in hoses, injectors and nozzles or even surface deformations.

To avoid the formation of condensation, powder coatings should not be exposed to strong temperature changes.

Before processing, it is recommended to acclimatise the powder coatings in a conditioned warehouse.

Transport/storage of liquid coatings

During transport, short-term (max. 48 hours) temperatures below the limit threshold of up to 3 °C or temperatures exceeding those specified in our technical data sheets and on our labels by max. 10 °C have no negative influence on the properties and durability of the products. Solvent-based products are insensitive to frost.

To protect water-borne coatings from frost damage during the winter months, longer delivery times are avoided and FreiLacke does not arrange for deliveries over weekends. On a case-by-case basis, "Winter packaging" is used for the containers, which consists of two-layer plastic bubble wrap and protects against rapid cooling.

The conditions for durability stated in our technical data sheets and on our labels refer to long-term storage in a well-ventilated, dry place. Storage in direct sunlight must be avoided.

Temperatures that temporarily (max. 14 days) exceed the temperature range stated in our technical data sheets and on the labels by max. 5 °C have no negative influence on the properties and durability of the product.

Long-term storage at temperatures of more than 25 °C may already impair the durability months before the 'use-by date'. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.

The incoming goods inspection must be carried out using an insertion thermometer in the material on the vehicle. A measurement on the outside of the container does not provide a meaningful indicator.

In the event of a deviation, complete the checklist (Appendix 1) in full and send it to FreiLacke immediately.

Processing of liquid coatings

The viscosity/flow time must be checked before processing and, if necessary, adjusted according to the respective specifications in the technical data sheets.

The temperature during the processing of the liquid coatings must not fall below 15°C. A relative humidity of 50 - 70 % must be observed for water coatings, and 30 - 80% for solvent coatings.

Before processing, it is recommended to acclimatise the liquid coatings in a conditioned warehouse.

Additional information is available in our safety and technical data sheets.



Appendix 1

Checklist Delivery of Coatings

Date	<input type="text"/>	
Time	<input type="text"/>	
Outdoor temperature	<input type="text"/>	
Number plate Truck	<input type="text"/>	
Number plate Trailer	<input type="text"/>	
Thermo Trailer	ja <input type="checkbox"/>	nein <input type="checkbox"/>
Active cooling / refrigeration	ja <input type="checkbox"/>	nein <input type="checkbox"/>
Insulated cover	ja <input type="checkbox"/>	nein <input type="checkbox"/>
Temperature material (Measured by immersion thermometer)	<input type="text"/>	



Picture number plate truck

Picture number plate trailer

Picture backside of truck / trailer with goods (opened doors)