



Technical Information

Paints, glazes

Stand: Januar 2026

1. Scope of application

This technical information describes the requirements, limitations, process characteristics and handling instructions for surface coatings using paints and varnishes on different substrates.

2. Basic suitability

2.1 Painting and glazing processes are not suitable for components that are subject to mechanical stresses during operation.

2.2 A substrate temperature resistance of at least 50°C is mandatory. Failure to comply may result in component deformation as well as color and surface changes.

3. Substrate-dependent risks

3.1 With certain plastics, as well as with bronze and aluminum castings or other porous substrates, changes in color tone, local delamination and adhesion problems can occur as a result of outgassing or trapped impurities.

3.2 Surfaces with textured surfaces influence the visual color effect depending on the light source and viewing angle. Precise reproduction of specific color tones is only possible to a limited extent.

4. Properties of the glazing process

4.1 Since varnishes do not have permanent UV stability, color drift and fading can occur over time.

4.2 Due to the nature of the manual multi-layer process, variations in shading, gloss level, structure, and color tone can occur.

4.3 Deviations from reference samples are inherent to the process and do not constitute a defect.

4.4 Color perception is significantly influenced by the type of light, the viewing angle, and the geometry of the components.

4.5 To achieve the most realistic reproduction of the desired surface appearance, a detailed specification of the final lighting situation is absolutely essential.

5. Processing and drying

5.1 Depending on the temperature and layer structure, the complete drying of the coating system can take several weeks.

5.2 Applying foils, coverings, or other coverings is only permitted after prior consultation with P.S. Oberflächen GmbH. Otherwise, problems such as undercutting, discoloration, and adhesion issues may occur.

5.3 Subsequent processing such as sawing, milling or deformation can damage the layer structure and lead to delamination.

6. Notes on component design

6.1 For one-sided coatings, the client must provide a suitable structural counterweight to prevent distortion of the component.

7. Surface care

7.1 Only approved products may be used for cleaning and maintenance.

7.2 In particular, harsh or alkaline cleaning agents, abrasive polishes, grinding pastes and solvent-based products are not permitted.

7.3 Mechanical impacts, such as those caused by jewelry, tools, or sharp-edged objects, lead to surface damage.

8. Handling after delivery

8.1 Components must be unpacked immediately upon delivery to prevent surface defects caused by the leakage of residual solvents.

9. Liability and warranty

9.1 P.S. Oberflächen GmbH accepts no liability for components prepared by the client.

9.2 The warranty is void if the client or third parties further process coated surfaces.

9.3 Failure to comply with the instructions contained in this document will result in the exclusion of warranty in accordance with § 639 of the German Civil Code (BGB).

10. Recommendation

For questions regarding further processing, suitable surface care, and the coordination of technical details, early contact with P.S. Oberflächen GmbH is recommended.