

Quickparts

LIMITLESS MANUFACTURING

MATERIAL FINISHES GUIDE

Choosing the right material and finish for your project.



Types and Codes

CHOOSE THE FINISH THAT SETS YOU APART

1. Standard finish - ST
2. Standard coating finish - SC
3. Waterproof impregnation - WT
4. Standard paint - P
5. Paint-ready finish - PRF
6. Paint finish - PRF-P
7. High gloss paint finish - PRF-PT
8. Dyed finish - DyF
9. Tumbling - T
10. Custom finishes - available on request - CF.

Section one: **SLS Finishes**

STANDARD FINISH (ST)

The part is sandblasted, resulting in a smooth and uniform surface. Depending on the orientation of the piece, layer lines may be visible.

The finish is matte, with a slight porosity.



STANDARD COATING FINISH (SC)

The part is sandblasted, resulting in a smooth and uniform surface. Depending on the orientation of the piece, layer lines may be visible. The finish has a slight porosity.

The part is then waterproofed using a sealant, enhancing its durability.



WATERPROOF IMPREGNATION (WT)

The part is sandblasted, resulting in a smooth and uniform surface. Depending on the orientation of the piece, layer lines may be visible.

The part is then waterproofed using a high quality sealant, enhancing its durability and chemical resistance.



SLS Finishes

STANDARD PAINT (P)

The part is painted, resulting in a smooth and uniform surface. Depending on the orientation of the piece, layer lines may be visible.

The finish is matte, with a slight porosity.



PAINT-READY FINISH (PRF)

The part is coated with primer and sanded using fine sandpaper, resulting in a paint-ready part.

No build/layer lines appear on the visual (cosmetic/A) surfaces. They are visible on non-cosmetic (B) surfaces.



PAINT FINISH (PRF-P)

The part undergoes a painting process to achieve a high-quality cosmetic finish. It begins with a primer coating followed by the application of paint.

This process ensures a durable and aesthetically pleasing appearance. Note, this may result in a slight increase in wall thickness.



HIGH-GLOSS PAINT FINISH (PRF-PT)

The part is painted to achieve a high-cosmetic result. It starts with a primer coating followed by painting, and finally, a gloss layer is applied.

This sequence ensures a smooth, glossy finish that enhances both visual appeal and durability. It may lead to a slight increase in wall thickness.



DYING FINISH (DyF)

The part is pigmented with a colour dyeing technique. Depending on the orientation of the piece during printing, layer lines may be visible. The finish is matte, with a slight porosity.



TUMBLING (T)

The tumbling process smooths the surface of the part, rounding off sharp edges. This creates a more uniform and polished finish, enhancing both the visual appeal and functionality of the final product. It may decrease the visibility of fine details.



THE FINISHES THAT SET THE STANDARDS

Section two: **SLA Finishes**

Types and Codes

1. Natural finish - NF
2. Basic finish - BF
3. Standard finish - ST
4. Pattern finish - NL
4. Standard paint - P
5. QuickClear finish - QF
6. ClearPart finish - CPF
7. Paint ready finish - PRF
8. Paint finish - PRF-P
9. High gloss paint finish - PRF-PT
10. Custom finishes - CF - available on request.

NATURAL FINISH (NF)

The part is washed and post-cured. Supports are removed by hand. No further sanding takes place.



BASIC FINISH (BF)

The part has a rough finish. Support points are sanded down.

Layers and supports sights will be slightly visible.



STANDARD FINISH (ST)

The part is sandblasted.

Depending on the orientation of the piece during printing, layer lines may be visible.



PATTERN FINISH (NL)

The support sights and layer lines are not visible on all surfaces. They may be visible on indicated surfaces.



SLA Finishes

STANDARD PAINT FINISH (P)

Standard part finish with spray painting.
Layers will be slightly visible.



SLA Finishes

QUICKCLEAR FINISH (QF)

The part is transparent to light. Layers will be slightly visible.



CLEARPART FINISH (CPF)

The part is transparent (High Gloss, glass-like).



PAINT READY FINISH (PRF)

The part is coated with primer and then sanded using fine sandpaper, resulting ready for painting. No build/layer lines can be seen on the visual (cosmetic) surfaces. They are visible on non-cosmetic surfaces.



PAINT FINISH (PRF-P)

The part is painted to high-level cosmetic result. The process starts with a coat of primer, followed by the required paint layer. Please note, adding paint to a part may increase wall thickness slightly.



HIGH GLOSS PAINT FINISH (PRF-PT)

The part is painted to high-level cosmetic result. The process starts with a coat of primer, followed by the required colour paint layer. The part is finished with a layer of gloss.

Note: adding paint to a part may increase wall thickness slightly.



QUESTIONS?

We can accommodate custom finishes. Please enquire.

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