

# Magigoo Pro 3D Printing Adhesive for Polypropylene Technical Data Sheet\*

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\*This document has been conscribed to the best of our knowledge. Verifications should be made to confirm details when necessary.

**magigoo**  
magigoo.com

## **Description:**

MAGIGOO® - Polypropylene, is an all-in-one 3D printing, first layer adhesive that offers a strong adhesion platform for polypropylene based filaments. Magigoo is an easy to use 3D printing adhesive designed to reduce warping in FDM/FFF 3D printers. Warping, among other factors, is caused by the differential cooling of a print during a 3D printing process. For printing repeatability and reliability a sure adhesion method such as Magigoo - Polypropylene is needed.

## **Technical specifications:**

- ▶ **Appearance:** milky white liquid
- ▶ **Consistency:** low-med viscosity
- ▶ **Solvent:** water

## **Intended use:**

To be used on FDM/FFF 3D printers with a heated bed on glass surfaces. Also works when applied on sheets e.g. Kapton, PEI and similar. To be used with Polypropylene plastics.

## **Properties:**

Magigoo – Polypropylene, acts as a thermally activated interfacial layer, allowing for better interactions, both at the micro and molecular level, between the printing bed and the printing materials. It is generally recommended to print according to the printing temperatures recommended by the filament supplier. The printing conditions vary between one printer and another.

To find the best temperature one could start from the lower end of the recommended settings and increase the bed temperature in 5 °C increments. This should be done with standardised calibration prints.

Additionally Magigoo – Polypropylene, is temperature sensitive, in that it will reduce its adhesive properties upon cooling. Different printers, print surfaces or filaments will have slightly different release conditions.

Part should become easier to remove after sufficient cooling (maximum half an hour after printing).

The best and most reliable performance is achieved when Magigoo Polypropylene is applied as a thin layer. This means that cleaning and re-applying between prints is recommended especially on longer prints or challenging prints.

### **Storage and Handling:**

Magigoo – Polypropylene should be stored in a cool dry place away from direct sunlight. After use magigoo should be stored in an upright position and with **the cap on**.

Excess adhesive on the nib can cause the applicator adhering to the cap. To prevent this, make sure no excess Magigoo remains on the rim of the applicator after use.

### **Known Hazards:**

Causes serious eye damage Wash hands and exposed skin thoroughly after handling. Wear protective gloves.

Incompatible materials: Iron, Copper, Zinc.

Please refer to the SDS for full safety information.

## Application Method:

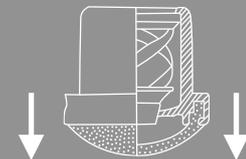
**Step 1:** Shake the bottle.



**Step 2:** Press nib against the surface.

NB! The Magigoo – Polypropylene container is spring activated. Pressing the bottle without pressing the nib against the bed may result in applicator popping off and product wastage.

Spring activated valve inside



**Step 3:** Apply to Desired area



**Step 4:** Print

NB! After print, wait until the build plate is cool to remove prints easily.

It is recommended to gently peel away the brim around the part and then attempting to remove the part by hand. If the part is hard to remove, a scraper should be used to assist part removal.

In cases of excess adhesion, it is recommended to wet print bed with a small amount of water slowly working it below the part. This should make part removal easier.



**Step 5:** Clean

NB! Use a wet sponge to remove all glue residue. Once the glue layer is wet it will form a white layer which can be easily scrubbed off with an abrasive sponge. Once the layer is completely loose from the glass it can be wiped away with a wet cloth and finally cleaned with a dry paper towel.



\* Images are illustrative.