

Anycubic Water-Wash Resin 2.0: Water-washable, balanced resilience and toughness

1. Product Name: Anycubic Water-Wash Resin 2.0

Anycubic Water-Wash Resin 2.0 is a water-washable entry-level resin with balanced resilience and toughness. It has low odor, high printing success rate, and cost-effective post-processing with enhanced safety. Compatible with all 405nm wavelength 3D printers, it is ideal for users allergic to alcohol, those pursuing ultimate affordability, or applications prioritizing safety. Perfect for anime/game figurines, architectural models, appearance prototypes, and structural R&D prototypes.

2. Physical Property

Specification	Testing standard	Parameter
Viscosity	ASTM D2196	190-230 mPa·s (25°C)
Density	ASTM D792	1.07-1.09 g/cm ³
Hardness	ASTM D2240	Shore D 82-85
Tensile Strength	ASTM D638	38-43 MPa
Elongation at Break	ASTM D638	18-22%
Bending Modulus	ASTM D790	48-60/MPa
Bending Strength	ASTM D790	2300-3000/MPa

Izod Impact Strength	GB/T1843/U	108 J/m
Volume Shrinkage Rate	GB/T15223-2008	2.2-5.5%

3. Chemical Property

Main Components:

Acrylate oligomers, reactive monomers, hydrophilic groups, photoinitiators, additives, etc.

Chemical Resistance After Curing:

Resistant to weak acids/bases and certain solvents (e.g., water, alcohol); not resistant to strong solvents (e.g., acetone).

4. Printing Parameters

Recommended Layer Height: 0.1mm, 0.05mm (adjust according to the specific 3D printer)

First Layer Exposure Duration /s: 25-40s

Exposure Duration /s: 2-2.5s (relates to light source power and resin types)

Printing Temperature /°C: 20°C-50°C

Recommended Wavelength: 405nm (LCD/DLP)

5. Post Processing

Washing Method: Wash with water, Ethanol, or Isopropyl Alcohol (IPA)

Wash Duration: ≥ 3 min (in wash & cure) / water wash ≥ 3 min

UV Curing Method: 3 minutes (in wash & cure)

Resin Disposal: Treated as plastic waste after curing

1. Do not discharge wastewater into drains to prevent groundwater contamination.
2. Allow the cleaned wastewater to settle in the sink for a period of time, then place it under sunlight to fully solidify the resin in the sink. Dispose of it as solid plastic waste to avoid environmental pollution.

6. Storage Condition

Temperature: 20-50°C (avoid extreme high/low temperatures)

Light Protection: Store in its factory container

Shelf Life: 18 months

7. Supplier Information

Manufacturer/Brand: ANYCUBIC

3. Technical Support: <https://www.anycubic.com/>

User Instructions

* Before use: Shake the resin thoroughly, clean the resin vat and build plate, ensure the vat's bottom remains highly transparent, and inspect the release film for any signs of damage.

* During use: Open the cap, remove the sealing film, pour the resin into the vat and ensure it does not exceed the max fill line.

* After use: Use proper tools for post-processing, including scrapers, flush cutters, tweezers, gloves, and IPA ($\geq 95\%$ concentration)

* Post-processing:

A: Remove the prints from the build plate using a scraper.

B: Wash prints, remove the support, and cure the prints.

C: Polish, paint, etc.

* Wastewater Disposal:

1. Do not discharge wastewater into drains to prevent groundwater contamination.

2. Allow the cleaned wastewater to settle in the sink for a period of time, then place it under sunlight to fully solidify the resin in the sink. Dispose of it as solid plastic waste to avoid environmental pollution.

Attention

1. Store in room temperatures and avoid direct sunlight.

2. We recommend a printing temperature above 20 °C. Lower temperatures may negatively impact print success rates. Be cautious, as excessive temperature can lead to increased resin color settlement.
3. If sediment settles at the bottom of the resin vat, gently stir it with a plastic spatula or pour the resin back into its bottle and shake thoroughly to remix.
4. Uncured resin is highly light-sensitive and will cure in direct sunlight. For best results, print in a dark, well-ventilated area or keep the cover closed during printing.
5. Models made with water-washable resin are prone to absorbing moisture from the air, which may degrade performance or cause cracking. Please dry the models thoroughly (inside and out) and cure them promptly after printing.
6. Do not leave the uncured prints in the cleaning agent for a prolonged period, which may compromise the resin's performance.

PS: The material performance may vary depending on the printer, method of curing, and testing instruments. Please refer to this product's safety information and certification reports (e.g., MSDS, REACH, RoHS, EAN, TDS). Should you encounter any issues, do not hesitate to contact us.