

YP.Universal Light-curing Composite Resin

■ Product Description

YP.Universal is a visible-light-activated, radiopaque, nano-hybrid filled composite designed for use in anterior and posterior restorations and is indicated for all carious classes. It is available in a variety of tooth-colored shades. A dental adhesive is used to permanently bond the restoration to the tooth structure.

■ Product Specifications

Shade: A1, A2, A3, A3.5, A4, B1, B2

Package: 4.0g/syringe

■ Product Composition

(1) The main components are silanized silicon oxide, silanized filler, Bis-EMA, UDMA, 12-dodecanol and 2-methyl-2-acrylate-1.

(2) This product is a general-purpose composite resin that is visible light-cured and X-ray-blocking. The aggregate has an average cluster particle size of 0.6 microns to 20 microns (comprised of 20 nm silica and 6 to 15 nm zirconia particles), and the total inorganic filler accounts for about 71% (volume percentage)

■ Product Performance

The product has a curing depth of not less than 1.5mm, a flexural strength of not less than 80MPa, a water absorption value of less than or equal to $40\mu\text{g}/\text{mm}^3$, and a solubility value of less than or equal to $7.5\mu\text{g}/\text{mm}^3$.

■ Indications

Direct anterior and posterior restorations (including occlusal surfaces); Core build-ups; Splinting; Indirect restorations (including inlays, onlays and veneers).

■ Contraindications

YP.Universal contains methacrylic monomers. Do not use YP.Universal for patients allergic to methacrylic and related monomers. Do not use YP.Universal with any material containing eugenol.

■ Clinical Procedure

(1) Cleaning: Thoroughly clean the tooth surface with a rubber cup and a fluoride-free paste then rinse with water.

(2) Shade Selection: Before isolating the tooth, select the appropriate shade of flowable resin using the standard VITAPAN® Classic shade guide. Complete the shade selection within 5 minutes; desiccated teeth are lighter than wet or moist teeth.

(3) Isolation: A rubber dam is the preferred method to isolate the tooth from contamination.

(4) Cavity Preparation:

Anterior Restorations: Prepare Class III, IV, and V cavities using conventional cavity preparation techniques.

Posterior Restorations: Line angles and point angles should be rounded. Ensure the prepared cavity is free of amalgam or other base material residues, as these can impede light transmission and hinder proper curing of the restorative material.

(5) Pulp Protection: Glass ionomer lining or calcium hydroxide should be applied if the cavity is in close proximity to the pulp. Do not use eugenol based materials to protect the pulp as these materials will inhibit curing of bonding agent and YP.Universal.

(6) Bonding system: Apply light-cured bonding system according to manufacturer's instructions.

(7) Syringe: Slowly rotate the syringe plunger clockwise to dispense the required amount of material onto a mixing pad. To prevent oozing after dispensing, rotate the plunger counterclockwise half a turn immediately after dispensing. Recap the syringe immediately. If dispensed material is not used immediately, store it protected from light (e.g., in a light-blocking container).

(8) Placement: Place and light-cure the resin material in increments. Place the resin material so that it slightly overfills the cavity margin. Use an appropriate resin instrument to contour and shape the material.

(9) Curing: YP.Universal can be cured using a halogen or LED curing light with a minimum intensity of $500\text{ mW}/\text{cm}^2$ and emitting light within the 400-500nm wavelength range. Cure by exposing the entire surface of each increment to the high-intensity visible light source. During light exposure, position the curing light guide tip as close as possible to the resin material. The maximum recommended increment thickness and suggested exposure time for each shade are provided in the table below.

YP.Universal	Increment Depth	Halogen or LED (550~1000 mW/cm ²)	LED (1000~2000 mW/cm ²)
Opaque Shades	1.5mm	40 sec	20 sec
All other Shades	2.0mm	20 sec	10 sec

(10) Finishing

1. Finish the restoration surface with diamond, bur or stone.
2. Check the occlusion with a thin piece of occlusal paper. Check the central and lateral moving contacts. Remove excess restoration material with fine diamond or stone to finely adjust the occlusion.
3. Polish with finishing and polishing system or polish with white stone rubber tip or polishing paste where polishing disc is not suitable.

■ Precautions

- (1) This product contains substances that may cause allergic reactions through skin contact. Avoid use of this product in patients with known allergies to acrylates. If prolonged contact of this product with oral soft tissue occurs, rinse with plenty of water. If an allergic reaction occurs, seek medical attention as needed and, if necessary, remove the product and discontinue future use.
- (2) When irradiating with light, please wear protective glasses and do not look directly at the irradiated light;
- (3) To avoid cross infection, do not cross-use between patients;
- (4) To avoid allergic symptoms caused by contact with the unpolymerized materials of this product, please wear plastic gloves or rubber gloves and do not touch this product directly with your hands;
- (5) When operating the solidified material and reverse grinding of this product, in order to avoid the harm of dust to the human body, please use a dust suction device, dust mask, etc., and do not inhale dust;
- (6) Please use as soon as possible after opening.

■ Storage

- (1) This product is designed to be used at room temperature. If the product is stored in a refrigerator, bring it to room temperature before use.
- (2) Do not expose the resin material to high temperatures or strong light.
- (3) Do not store the resin material together with products containing eugenol
- (4) Discard the used syringe cap and save the replacement syringe.

■ Disposal

After the product is used up, dispose it as normal medical rubbish.

■ Shelf life: 3 years.

■ Manufacturer: Zhengzhou Yp Dental Co., Ltd.

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■ Symbols

Symbols	Instructions	Symbols	Instructions
	Manufacturer		Keep away from sunlight
	Date of Expiration		Batch code
	Date of manufacture		Refer to the instructions for use