

Instruction for Use

Product Name: **PROGRESS PLUS**
(Dental Adhesive Filling Material – Dental filling composite resin)

[Contraindication/Prohibition]

This material shall not be used on patients with a history of the rash, skin irritation, and other sensitivities against this material or methacrylic acid type monomer.

[Form / structure and principles, etc.]

Form	Container	Composition
Paste	Syringe	Silica, Compound filler containing NaF, UDMA, 3G, others

This material is polymerized by visible light energy with a wavelength of 470 – 480 nm.

[Intended use, indication and efficacy]

This material primarily comprises resin and inorganic filler or compound filler, which is polymerized by external energy. Primarily used for restoration by filling tooth cavity or repairing of artificial tooth crown. Excludes those that contain medicinal products.

[Item specifications, etc.]

1. Environmental light stability: Keep a physically homogeneous state
2. Photocuring depth:

Light irradiation time	Photocuring depth (mm)	
	A1, A2, A3, B2, B3	A3.5, C3
20 seconds	3.0	2.5
40 seconds	3.5	2.8

3. Flexural strength: 50 MPa or more
4. Amount of water absorption: 40 $\mu\text{g}/\text{mm}^3$ or less
5. Dissolving rate: 7.5 $\mu\text{g}/\text{mm}^3$ or less
6. Shade: To be homogeneous shade
7. Shade stability: Free from recognizable discoloration

[Operating method or usage, etc. (direction and dose)]

A. In the case of tooth restoration

- (1) Cavity preparation and lining
Prepare the form of the tooth to be treated, clean, and carry out lining as required.
- (2) Bonding
In accordance with the usual manner, carry out etching, primer, and bonding.
- (3) Paste filling and shaping
Using a filling instrument, etc., fill the cavity with paste and give forms. For the adjacent surfaces between teeth, generally use polyester strips.
- (4) Photo-polymerization
Using an irradiation device for photo-polymerization, irradiate the paste-filled surface with visible light at least for 20 seconds or more. When the filled surface is wide, shift positions and re-irradiate.
- (5) Forming the surface characterization
Carry out forming of the surface characterization, occlusal equilibration, finish-polishing, etc. appropriately.

B. In the case of repairing of prosthesis

- (1) Treat the prosthesis by required surface treatment material, etc. Where necessary, apply and harden dental bonding material, etc.

- (2) Apply the paste on the prosthesis.
- (3) Using an irradiation device for photo-polymerization, irradiate the paste with visible light (see item specifications 2).
- (4) Fill the prosthesis with the paste until the paste is filled slightly in excess, and irradiate it with light.
- (5) Upon completion of final light irradiation, carry out forming of the surface characterization, occlusal equilibration, finish-polishing, etc.

[Precautions for Use]

- 1) Precautions for use
 - [1] Do not use zinc oxide eugenol cement for lining for it has a possibility of impeding polymerization if it comes in contact with the paste.
 - [2] When the cavity is deep, fill the cavity with paste after protecting the dental pulp by an appropriate method.
 - [3] Do not leave the bottle open.
 - [4] Do not use this material for other than intended use stated in the column of [Intended use, indication and efficacy].
 - [5] Do not allow any other persons than those qualified for dentistry to use this material.

2) Important basic precautions

- [1] Stop using this material on patients when symptoms such as rash, hot rash, flare, ulcer, puffiness, itch, numbness, and other sensitivities are identified, and have the patients consult a medical doctor.
- [2] Users who have the rash, skin irritation, and other sensitivities against this material or methacrylic acid type monomer shall use gloves, etc to avoid direct contact with this material. In addition, users who suffer rash, hot rash, flare, ulcer, puffiness, itch, numbness, and other sensitivities by the use of this material shall stop the use and get medical attention.
- [3] Take utmost care to prevent this material from contacting with the oral soft tissue, skin, etc. or from entering eyes. In the event that this material adheres to the oral soft tissue or skin, wipe away with alcohol cotton, etc. and flush the affected area with large quantities of water. In addition, in the case of eye contact, immediately flush eyes with large quantities of water and consult an ophthalmologist.

[Storage methods]

Store at a dark place at room temperature (1-30°C).

[Use-by date]

Within 3 years of manufacturing

[Single item packing]

Dental filling composite resin: one 4g (2mL) container