

Generative Resin GR-17 temporary

Instructions

pro3dure medical GmbH

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Product description:
photopolymerizable
resin for the pro-
duction of anterior
temporary dental
restorations by image
projection systems
(≤ 405 nm)

Technical data:

- Colours:
A1, A2, A3
- Density:
ca. 1.2 g/ml
- Viscosity:
ca. 1,5 Pa s
- Green flex modulus:
Elastic modulus:
ca. 800 MPa
Flexural strength:
ca. 44 MPa
Elongation at break:
ca. 13 %
- Post cured
material: (depends
on postcuring unit)
Elastic modulus:
ca. 2400 MPa
Flexural strength:
ca. 90 MPa
Elongation at break:
ca. 4 %
Hardness:
> 85 Shore D
- Storage:



Ordering information:

Standard packing:

500 g bottle, color: A1
item no.: D1001444

500 g bottle, color: A2
item no.: D1001445

500 g bottle, color: A3
item no.: D1001446

1 kg bottle, color: A1
item no.: D1001432

1 kg bottle, color: A2
item no.: D1001433

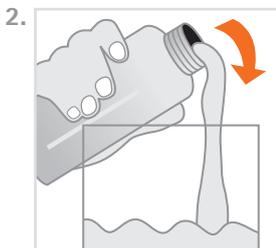
1 kg bottle, color: A3
item no.: D1001431

These data result from
measurements of a
representative sample,
which were determined
within the scope of our
quality assurance.



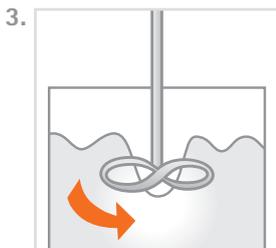
1. Product description

pro3dure's generative resin **GR-17 temporary** is a resin for the generative production of temporary anterior dental restorations based on image projection systems (≤ 405 nm). The formulation of **GR-17 temporary** is optimized for the requirements of a robust production guaranteeing constant high quality. The **GR-17 temporary** is successfully tested for biocompatibility, certainly meets all mechanical and application demands. The material can be used for build processes with layer thicknesses from 50 up to 100 μ m. It is recommended to use the pro3dure medical curing device **CD-1** or **CD-2** for post curing.



2. Processing

- **GR-17 temporary** bottles should be well shaken before use (fig 1) or stored on a roller.
- Make sure that **GR-17 temporary** material is temperature adjusted up to 23 °C to 30 °C.
- Carefully pour **GR-17 temporary** into the vat of the image projection unit (fig 2).
- Bubbles can be removed with a cleaned spatula or by a recoater routine.
- If it is possible, always store a bottle **GR-17 temporary** in your production unit in order to avoid temperature differences during refilling.
- For the build parameter adjustment please refer to the machine data sheet.
- After the build process is finished a direct post treatment is recommended. If this cannot be guaranteed leave the produced objects in the liquid **GR-17 temporary** resin.
- After cleaning of the parts with isopropanol ≥ 97 % (approx. 3-5 min. in an ultrasonic bath) the objects are postcured in an adequate light curing unit (e.g. pro3dure's **CD-1** or **CD-2** for a period of 10 min.) in a protective gas atmosphere.
- The dental objects generated out of the generative resin **GR-17 temporary** can be coated and repaired as usual.
- Impurity due to operation mistakes cannot be excluded. With respect to the low viscosity of the resin it is possible to filtrate the **GR-17 temporary**. It is recommended to filtrate and stir up the resin on a regular base (fig 3). To avoid bubbles let **GR-17 temporary** rest for 1 hour before usage.



Contains: Alkoxilated bisphenole-A-dimethacrylate, initiators, dyes and stabilisers.

3. Important

- To avoid detrimental effects on material quality do not expose the liquid material to irradiation under any circumstances.
- Deviations from the described manufacturing process may lead to different mechanical and optical properties of the **GR-17 temporary** material.
- Ensure personal protective gear during processing.
- Caution: Polymerised resins are chemically resistant - avoid stains on clothing!
- Avoid any contact with skin and eyes. In case of accidental contact, rinse with adequate running water, consulting a doctor if necessary.
- The lot number and the best before date are indicated on each **GR-17 temporary** packaging. In case of claims please always indicate the lot number of the product. Do not use the product after expiry of the best before date.

Safety advice

Pro3dure medical GmbH is not liable for any damages caused by improper application of the material. To be used by trained specialist personnel for the purpose indicated only.

**GR-17
temporary**