

# POWER Pattern LC Gel

## Light-curing modelling gel – Instructions for Us

According to Regulation (EC) No.1907/2006

### Product Description

POWER Pattern is a light-curing, one-component modelling composite gel for dental laboratory use. It is suitable for milling, interlocking, and object transfer thanks to its pasty consistency. The modelling is carried out cold, therefore no thermal contraction occurs. The blue colour ensures fast polymerisation in depth and provides good contrast with the model. It burns out completely and can therefore also be used in pressed ceramic applications. POWER Pattern cures with standard 320–500 nm lamps and can be combined with conventional waxes once polymerised. It is a perfect complement to the Kiero Plast composite paste when modelling in the dental laboratory.

### Composition

Acrylic resin and initiators.

### Application area

- Modelling of attachments, telescopic or cone crowns, and individual abutments
- Interlocking of objects
- Modelling of adhesive bridges, inlays, and onlays
- Modelling of crowns and bridges for pantographic transmission (e.g. ZirkonZahn, Ceramill)
- All types of block-outs (dies, shoulders, retentive zones, etc.)
- Spacer for producing soft, flexible bleaching splints

### Properties and advantages

POWER Pattern patterns are highly stable and precise and can be removed without distortion. Patterns made from light-cured or conventional waxes can be ideally combined and corrected. The material is immediately positionally stable, allowing fast, economical, and accurate application. POWER Pattern burns out without residue, even in thicker layers, ensuring precise casting results.

### Instructions

POWER Pattern must be applied to a dry and clean model and can be used with any type of separator. Apply the material directly from the syringe. After removing the cap, attach the application tip (single-use only). Close the syringe after use. Polymerisation of layers thicker than 1 mm may result in incomplete curing and excessive temperature release or internal stresses. Therefore, apply the material in layers of max. 1 mm and cure each layer separately. Once the material has been applied, it is not necessary to remove the cannula.

**Important:** Do not remove the inhibition layer from the surface, as it provides optimal bonding between layers and prevents stresses in the modelling resin. The inhibition layer should only be removed using alcohol or acetone after contouring is complete or if wax is to be added. For optimum casting results, complete removal of the inhibition layer is essential. For large-volume patterns, the object should be complemented with a thin wax coating.

## Polymerization

POWER Pattern polymerises with standard light-curing units between 320 and 500 nm and does not require a vacuum.

### Typical curing times:

- 90 seconds with stroboscopic light
- 2 minutes with halogen light
- 3.5–5 minutes with UVA lamps

Curing times depend on the emission power of the light-curing unit. Proper maintenance and regular lamp replacement are required to ensure consistent curing. Always follow the instructions of the device manufacturer.

## Warnings

Always observe the applicable safety data sheets. Contains Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide. May cause an allergic reaction. Avoid contact with unpolymerised material. Wear protective gloves, protective clothing, and eye protection. Avoid breathing dust or vapours and use an extraction system.

## Contraindications

Sensitivity in individuals with intolerance to any of the components cannot be excluded. In such cases, discontinue use of the product.

## Storage instructions

Store between 4 °C and 25 °C. Protect POWER Pattern syringes from heat and direct sunlight. Do not use after the expiry date.

## Disposal note

Avoid release to the environment. Dispose of contents and container in accordance with local regulations.

## Legend



Lot number



Expiry date



Read instructions for use



Recommended storage temperature



Manufacturer



Protect against light

## Delivery units

Box of 5 × 3 g syringes  
15 × cannulas

This product was developed for dental use and must be used according to these instructions for use. The manufacturer does not accept liability for damage resulting from improper use. The user is responsible for verifying the suitability of the material for the intended purpose before use.