

---

## INSTRUCTION FOR USE PEARLIGHT Bond

### Light-curing single-component universal bonding agent

#### COMPOSITION

Dimethacrylate oligomers (bis-GMA, HEMA, etc.), colloidal filler, modifiers, polymerization activators, stabilizers, solvents

#### PROPERTIES

Material **PEARLIGHT Bond** is LC single-component adhesive material which can be used together with any other LC composite materials in total-etch technique of enamel and dentine.

**Attention!** Do not use eugenol-containing materials, because eugenol disrupts adhesive's structuring.

Chemically reactive groups of adhesive modifiers interact with organic structures of collagen fibers and calcium ions of tooth hydroxyapatite, thus forming chemical bonding with enamel and wet dentin. Adhesive has a chemical affinity to binding agent of composite material. Spreads smoothly with a thin layer on the surface, providing reliable connection between dental tissues and composite material.

#### INDICATIONS

Light-curing single-component adhesive material **PEARLIGHT Bond** is used for reliable bonding of LC composite restorations to dental tissues.

#### CONTRAINDICATIONS

Individual intolerance. Apply carefully with allergic patients.

Don't misuse.

#### SIDE EFFECTS

As far as all terms of storing, transporting and application are observed, there are no side effects.

#### METHOD OF APPLICATION

**Attention!** Material, stored at low temperatures, should be warmed in room temperature within 1 hour before use.

Rubber dam or cotton rolls and saliva ejector should be used for isolation of working surface from saliva.

Hard tooth tissues preparation is performed according to standard methods of cavity preparation.

In case of deep cavity, for pulp capping, apply calcium hydroxide material and isolate with glass ionomer cement only close to pulp dentine. The rest surface of dentine should stay open for adhesive treatment.

Prepared tooth surface should be treated with etching gel based on 37 % orthophosphoric acid. Gel is applied first on enamel surface, and after 5-10 seconds on dentin surface. In 15-20 seconds, gel should be washed out with water. Dry with compressed air. Surface should stay slightly wet.

Required amount of adhesive material should be pressed out into the socket of glass plate. Adhesive **PEARLIGHT Bond** is applied with 1-2 coats on prepared surface of the tooth by gentle rubbing for 15 seconds. Slightly dry adhesive with air within 5 seconds (for preventing of splashing), then dry for another 5 seconds with strong air flow. Provide photopolymerization with light of 400-500 nm wavelengths within 20 seconds. During curing, the waveguide endface should be kept in close proximity to curable material. In case of big cavity, divide it to smaller sections and provide photopolymerization of each sector separately.

Do not remove formed inhibited layer, which promotes binding with composite material. Provide further restoration in accordance with instruction of chosen material (**PEARLIGHT Universal**, **Nanoplant Höchst**).

**Attention!** It is important to remove excess material from the bottle's nozzle and tightly close it after use in terms of preventing solvent evaporation.

In case of accidental contact with oral mucosa, eyes or skin, rinse the affected area with large amount of water.

Intensity of the light, emitted by lamp for photopolymerization, should be regularly tested with the help of suitable photometers.

#### **PRESENTATION**

Adhesive material (dropper bottle)      6 gr

#### **STORAGE**

Keep in dry place protected from light at a temperature from 5 °C to 25 °C.

Tightly close container immediately after use.

Do not use after expiry date.

Shelf life – 3 years.

#### **MANUFACTURER**

Nanoplant Höchst GmbH

Neue Str. 67

Seebach 99846, Germany

Tel. +49 36929 574074

Fax +49 36929 574067

E-mail: [info@nanoplant-hoechst.de](mailto:info@nanoplant-hoechst.de)

Web: [www.nanoplant-hoechst.de](http://www.nanoplant-hoechst.de)

***For professional use only***

Date of last revision: 2018-03