

# THERAFIL®-31

## Hybrid light cure restorative composite

### Prescription

**THERAFIL-31** used in therapeutic dentistry for filling caries cavities of all teeth by all classes by Black (mainly I and II class), elimination of traumatic defects and correction of anatomic form of crown parts of front teeth.

### Characteristics

**THERAFIL-31** highly filled hybrid composite hardening by visible light with a wavelength of 400-500 nm. Depth of curing of **THERAFIL-31** by exposure of illumination lamp 75Wt during 40 seconds is 4-6 mm.

**THERAFIL-31** is available as a system kit which contains pastes of four colors by scale Vita from the following list: A1, A2, A3, A3.5, B2, B3, C2; shades A2 or A3 may be included in the kit in duplicate.

Seals from **THERAFIL-31** have low shrinkage stress, high hardness and durability, optimal transparency, good color stability.

### Method of application:

#### Selection color of filling material.

Color selection is started immediately after cleaning enamel from plaque by mild abrasive (pumice, chalk) by comparison with a sample of colors by natural light. During the treatment tooth should be wet. It should be remembered that a decrease in the thickness of the layer of material, the color intensity decreases and increases transparency. With the combination of the lower layer of dark color with a top layer of light can simulate a smooth transition of color fillings to

natural tooth tissues.

#### Preparation of caries cavity of the tooth

Caries cavity preparation by well known for polymer materials procedure. For good marginal adaptation necessary finishing of marginal enamel. Filling with **THERAFIL-31** requires isolate gasket (polycarboxylate, glass ionomer flowable cement or cement **Reoliner-LC**) in the case of deep caries - calciferous composite gaskets.

Before putting filling material prepared tooth surfaces must be etched by phosphate gel and treated with adhesive.

#### Etching of enamel and dentin

The necessary quantity of gel is extruded from syringe through cannula into cuvette or directly on the tooth. The gel is carefully applied on enamel at first and after 15 sec. on the dentin. Gel allocated by micro brush on the treated surface. Extract after application to dentin must be 15-20 seconds.

After extract gel is washed for 15 seconds with water under pressure. Then the surface of tooth is dried with air 10 sec. to slightly moist dentin and enamel tarnishing. With the increased resistance of enamel is necessary repeat etching, but not more than 30 seconds. The cannula after use is washed with water using a syringe, gaining and passing water through it a few times.

#### Applying of adhesive

A drop of adhesive is extruded onto the applicator and applied to a cavity and the edge of a continuous. During processed cavity must be visually dry

allowed a slight moistening of dentin like natural seepage dentinal fluid. During 10-15 sec. rub with the adhesive in the cavity ridge and then dried with compressed air for 15 seconds. After application of the adhesive coat must have an oily appearance. Putted adhesive treated by photopolymerizator for 10-15 sec., while its surface keeps residual tackiness required for reliable communication with the composite. With significant exposures dentine adhesive is applied twice.

#### Filling

For interdental separation and forming seals II (III, IV) is recommended use matrix strip. Pasta **THERAFIL-31** applied in layers and cured by light. The thickness of the first layer should be no more than 1 mm, the first layer of the paste should securely connect with the adhesive ("stick"). Long periods of simultaneous irradiation of the first layer of the adhesive and paste by photopolymerizator is 40 sec. After application of the second (last) of the composite layer and forming a seal on its perimeter a thin layer of adhesive (post bonding) dried by air for 10-15 seconds and finally polymerized seal 40 sec. Surplus of material with gingival margin should be removed before or after the final curing of the seals.

#### Treatment of the seal

Polished diamond seal by fine-grained corundum heads and disks with abrasive grit first 20-40 microns and then 5-10 microns. Rounding out the restoration is finished polishing paste preferably based on synthetic diamonds (polishing paste Diapol) using disposable felt micro filz. The duration of polishing 20 – 40 sec.

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Filling cavity must be clean and dried well. Any impurity (saliva, blood) violates curing seals and impairs its quality. After working with the composite paste syringes should not be left open.

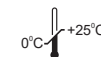
### Storage conditions and labeling

#### Storage conditions

**THERAFIL-31** in packaged form should be stored in closed, cool place, protected from atmospheric precipitation and direct sunlight. To increase the shelf life prolonged storage it is recommended to use a refrigerator at + 5°C. Before working set **THERAFIL-31** must be kept for at least 2-3 hours at room temperature to recover the ductility of composite pastes.

#### Labeling

The symbol on the package shows expire date.



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### Recommendations

Not recommended use the pads which