

QualiSense MICROFILL

Light cure high performance composite with excellent high gloss polishability, for Universal- or Multi-Opacity restorations

Recommendation for Use

MICROFILL is a light cure composite for anterior and posterior restorations with permanent gloss and toothlike opalescence. **MICROFILL** shows excellent physical properties and good handling features. High gloss polishability demands only little effort. **MICROFILL** contains dimethacrylate based resins and inorganic fillers < 0.2 µm. The total filler content is 80 % by weight and 76 % by volume.

The material properties of **MICROFILL** meet the requirements of **ISO 4049**

Indications

- Restorations of all cavity classes
- Direct veneers
- Repair of ceramic restorations (e.g. veneers, crowns)

Side Effects

Irritations resulting from direct contact with the pulp cannot be ruled out. Therefore for pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material.

Incompatibility with Other Materials

Do **not** use in combination with substances containing eugenol because eugenol inhibits the polymerization of the composite. Neither store the composite material in proximity of eugenol containing products, nor let the composite allow coming into contact with materials containing eugenol.

Preparation of Tooth and Color Matching

Clean the tooth with a fluoride-free polishing paste (e.g. flour of pumice with water) prior to preparation and color matching.

Ascertain the tooth shade while teeth are still moist and select the appropriate **MICROFILL** shade.

MICROFILL is available in a wide variety of **VITA®-Shades** and in different opacities.

For easy and time saving esthetic restorations the following **Universal Shades** are available:

A1 U	B2 U
A2 U	BL U (BLEACH)
A3 U	C2 U
A3.5 U	D3 U

For highest esthetic demands the shade layering technique is recommended. A wide variety of shades and opacities are here available:

Dentine	Enamel	Incisal
A1 D	A1 E	
A2 D	A2 E	
A3 D	A3 E	
A3.5 D	A3.5 E	
B1 D	B1 E	
B2 D	B2 E	
C2 D	C2 E	
INT D	A4 E	
	B3 E	
	C3 E	
BL D	BL E	Inc (Incisal)
	BL 0.5 E	T (Transparent)
		TX (Extra Transparent)

Cavity Preparation

After isolation (**best with a rubber dam**) prepare the cavity with minimal tooth reduction.

For pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material (e.g. **CH LINER**).

Apply a common adhesive for enamel and dentine bonding according to the corresponding manufacturer instructions.

The application of the universal adhesive **UNIVERSAL ADH** is recommended. **UNIVERSAL ADH** can be used in combination with an etching gel (e.g. **ETCHING GEL**) or as a self-etching adhesive. Follow the instructions for **UNIVERSAL ADH**.

Application and Curing of MICROFILL

Apply **MICROFILL** in the selected shade in increments and light cure. **MICROFILL** is easy to model. Place it by using a suitable instrument. Matrix strips may be used.

In case of deep and extended cavities best results are obtained with a build-up of a base liner using a light cure resin modified cement (e.g. **MODGLASS F**) or a light cure flowable composite (e.g. **MICROFILL F**), followed by the application of **MICROFILL**.

In case of small cavities **MICROFILL** can be applied directly.

For an optimum result apply **MICROFILL** in layers of max. 2 mm. Light cure each increment separately.

By using a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least **1000mW/cm2**, cure each increment separately.

Shades	Incremental depth	Cure time
Body, Enamel, Translucent	2,0 mm	20 seconds
Dentine	1,5 mm	40 seconds

Hold the light emission window as close as possible to the filling material.

Finishing

Depending on the shape of the area contour with finishing diamonds, flexible grinding discs or carbide burs.

Polish to high gloss with polishing discs or polishing brushes.

Storage

Do **not** store above **25°C (77°F)**. Protect from direct sunlight.

Do not use after expiry date.

Close syringe immediately after use to avoid exposure to light.

APPLIC.-Tips are for single use only.

Additional Notes

- Do **not** use any resin to adjust viscosity of composite restorative material.
- Avoid contact with skin, mucous membrane and eyes.
- Unpolymerized **MICROFILL** may have an irritant effect and can lead to sensitization against methacrylates.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.
- **VITA®** is a registered trade mark of the **VITA-Zahnfabrik**, Bad Säckingen, Germany.

Warranty

First Scientific Dental Materials GmbH warrants this product will be free from defects in material and manufacture. First Scientific Dental Materials GmbH makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusive remedy and First Scientific Dental Materials GmbH's sole obligation shall be repair or replacement of the First

Scientific Dental Materials GmbH product.

Limitation of Liability

Except where prohibited by law, First Scientific Dental Materials GmbH will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

Keep away from children!

For dental use only!



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