



INSTRUCTION FOR USE PROFILUX iCem fix

Radiopaque glass ionomer luting cement

COMPOSITION

Calcium alumofluorosilicate radiopaque glass, polyacrylic acid, tartaric acid

PROPERTIES

Glass Ionomer cement **PROFILUX iCem** contains modifiers and additives, controlling time and mechanism of paste formation.

Mixing of powder with distilled water forms a plastic paste with film thickness 15 µm. After hardening forms a cement with high biocompatibility to hard tooth tissues, sufficient strength (130 MPa) and acid erosion resistance. Polyacrylic acid binds with dentin calcium and provides chemical adhesion and marginal fit of cement to hard tooth tissues and main construction materials. Conditioning of hard tooth tissues surfaces improves cement adhesion. Fluorine-containing glass filler is able to accumulate and release fluorine ions, thus providing prolonged anticaries effect. Aesthetic properties of material allow to use it for fixation of metal-free crowns and bridges made of high-strength ceramics.

Conditioner – is a water solution of polyacrylic acid (12 %) of blue color. Surface conditioning significantly improves adhesion and ion exchange between tooth structure and glass ionomer cement.

INDICATIONS

Radiopaque glass ionomer cement **PROFILUX iCem** is used for fixation of crowns, dental bridgework, inlays and onlays

CONTRAINDICATIONS

Drug idiosyncrasy

Use with great care for allergic patient

Don't misuse

SIDE EFFECTS

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

METHOD OF USE

Shake the jar with powder before use, without turning over, tapping on palm.

1. Surface preparation (conditioning)

Prepared, cleaned and dried tooth stump should be treated with conditioner with the help of applicator (cotton ball or sponge). In 10-15 seconds clean thoroughly the cavity with water and dry slightly till glossy surface.

DO NOT OVERDRY!

2. Mixing

Mix powder with distilled water on mixing pad or glass plate with plastic or metal spatula, at the room temperature 18-23 °C.

Comply with recommended ratio:

Ratio powder/liquid, g/ g	2,6/1,0 2 dose meter of powder spoonful / 1 drop of liquid
Mixing time, sec	30-45
Working time, min.	2,0-2,5
Hardening time from the start of mixing, min.	6-7

Higher temperature cut working time, lower temperature (for example during mixing on cooled glass plate) extend working time. Raising of ratio – powder/distilled water, cut working time. However, insufficient amount of powder worsening cement properties.

To reach optimum properties of material it is **IMPORTANT TO FULFILL TEST MIXING** complying with recommended by manufacturer powder/distilled water ratio.

At first mix half of measured out powder with distilled water within 10-15 seconds. Then add the rest amount of powder by portions and mix by circular motions of spatula within 20-30 seconds till plastic consistency. For fixation, insert material into crown and fix it on prepared tooth stump without over compressing. Patient should articulate and with constant pressure wait for hardening of material. Remove excess of material.

It is recommended for patient not to eat within 2 hours.

Right after mixing clean metal instruments from material remains.

Attention! After application tightly close container with cement.

In case of eye or skin contact as well as contact with soft tissues of oral cavity, remove material immediately and wash with water.

PRESENTATION

Powder (bottle)	15 g
Liquid (bottle)	10 ml
Measuring spoon	1 piece
Mixing pad	1 piece

Produced separately:

Conditioner (bottle)	6 g
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STORAGE

Store at the temperature from 5 °C to 25 °C. Keep in dry place
Tightly close container immediately after use Keep away from humidity!

Do not use after expiry date

Shelf life – 3 years

MANUFACTURER

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3. INSTRUCTION FOR USE PROFILUX iCem R

Radiopaque glass ionomer restorative cement

4. COMPOSITION

Calcium alumofluorosilicate glass, polyacrylic acid, tartaric acid

5. PROPERTIES

Glass Ionomer cement **PROFILUX iCem** include:

- powder /liquid
- conditioner (produced separately)
- varnish (produced separately)

Mixing of powder with distilled water forms a cement with high biocompatibility to hard tooth tissues, sufficient strength (170 MPa) and acid erosion resistance (less than 0,002 mm/h). Polyacrylic acid binds with dentin calcium and provides chemical adhesion and marginal fit of cement to hard tooth tissues.

Glass Ionomer cement for restoration is produced in Vita shades of groups A, B and C. After hardening materials corresponds all the aesthetic requirements.

Fluorine-containing glass filler is able to accumulate and release fluorine ions, thus providing prolonged anticaries effect.

Conditioner – is a water solution of polyacrylic acid (12 %) of blue color. Surface conditioning significantly improves adhesion and ion exchange between tooth structure and glass ionomer cement.

Varnish – contains film former in highly volatile solvent. Protective thin film isolate filling from saliva influence at the stage of its ageing and add aesthetic shine to the filling.

6. INDICATIONS

Glass Ionomer cement **PROFILUX iCem** is used for:

- filling and restoration of I, II, III and V class cavities (according to Black classification)
- ART-technique filling
- primary teeth filling
- fissure sealing
- lining for composite restoration
- temporary filling

7. CONTRAINDICATIONS

Drug idiosyncrasy
Use with great care for allergic patient
Do not misuse

8. SIDE EFFECTS

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

9. METHOD OF USE

Shake the jar with powder before use, without turning over, tapping on palm.

1. Surface preparation (conditioning)

In case of deep caries, pulp should be protected with calcium hydroxide based material.

Prepared, cleaned and dried tooth stump should be treated with conditioner with the help of applicator (cotton ball or sponge). In 10-15 seconds clean thoroughly the cavity with water and dry slightly till glossy surface.

DO NOT OVERDRY!

2. Mixing

Mix powder with distilled water on mixing pad or glass plate with plastic or metal spatula, at the room temperature (18-23) °C.

Comply with recommended ratio:

Ratio powder/liquid, g/g	2.6/1.0 2 dose meter of powder spoonful / 1 drop of liquid
Mixing time, sec	30 - 45
Working time, min.	1.5 - 2.0
Hardening time from the start of mixing, min.	4-5

Higher temperature cut working time, lower temperature (for example during mixing on cooled glass plate) extend working time. Raising of ratio – powder/distilled water, cut working time. However, insufficient amount of powder worsening cement properties.

To reach optimum properties of material it is **IMPORTANT TO FULFILL TEST MIXING** complying with recommended by manufacturer powder/distilled water ratio.

At first mix half of measured out powder with distilled water within 10-15 seconds. Then add the rest amount of powder by portions and mix by circular motions of spatula within 20-30 seconds till plastic consistency.

To fulfill the restoration, insert material into the cavity and shape it within material working time. If needed remove excess of material, avoiding air bubbles formation, by use of paper strip to reach smooth surface of the filling.

3. Final filling treatment

After hardening of material, apply thin layer of **PROFILUX iCem** varnish with the help of applicator, slightly dry with air. In 10 minutes the filling can be polished with polishing pastes. After treatment apply protection layer of **PROFILUX iCem** varnish and dry the surface of the filling.

It is recommended for patient not to eat within 2 hours.

Attention! After application tightly close container with cement.

In case of eye or skin contact as well as contact with soft tissues of oral cavity, remove material immediately and wash with water.

PRESENTATION

Powder (bottle)	15 g
Liquid (bottle)	10 ml
Measuring spoon	1 piece
Mixing pad	1 piece

Produced separately:

Conditioner (bottle)	6 g
Varnish (bottle)	6 g

10. STORAGE

Store at the temperature from 5°C to 25°C. Keep in dry place.

Tightly close container immediately after use

Keep away from

humidity! Do not use

after expiry date. Shelf

life – 3 years.

11. MANUFACTURER

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