

Complementary Products

Clearfil ST represents a different technology for light-curing hybrid composites. Designed for high aesthetic anterior restorations, CLEARFIL ST allows every dentist to create results which usually are only achieved by support of a laboratory technician. CLEARFIL ST shows excellent physical and mechanical properties and comes in 18 different shades. An available detailed brochure gives background information.



Clearfil AP-X is a light-curing, radiopaque restorative composite resin, which provides accurate colour matching, high polishability and excellent physical properties, making it suitable for both anterior and posterior restorations. It is formulated with the optimal viscosity for easy handling and placement.



Features and benefits

- Multifunctional kit
- Bonds to all dental materials
- Enables direct repairs in a few minutes
- Includes self-etching CLEARFIL SE BOND
- Contains MDP

Clinical indications

All possible bonding procedures to all available dental materials e.g.:

- Direct light-curing composite restoration
- Intra-oral repairs of fractured porcelain
- Intra-oral repairs of fractured (precious) metal
- Intra-oral repairs of fractured composites
- Fabrication of removable dentures
- Denture repairs
- Adhesion of metal crowns, bridges, inlays, onlays, posts and cores
- Bonded amalgam restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Cavity sealing

Contents:

- # 1971 EU CLEARFIL REPAIR KIT
- 1 SE BOND Primer 6 ml
- 1 SE BOND Bond 5 ml
- 1 ALLOY PRIMER 1 ml
- 1 PORCELAIN BOND ACTIVATOR 4 ml
- 1 K-ETCHANT GEL 6 ml
- 1 CLEARFIL ST OPAQUER (US) 4 g
- 1 CLEARFIL Mixing Tray
- 1 CLEARFIL Light Cover Plate
- 1 CLEARFIL Brush Holder
- 50 CLEARFIL Brush Tips



**KURARAY
DENTAL**

www.kuraray.de

NO NEED TO LOOSE YOUR HEAD



Welcome to a new era of adhesive technology:
with the CLEARFIL REPAIR KIT by Kuraray. For
the first time, dentists can now rely on a
carefully matched system designed to meet
every possible bonding repair with all dental
materials. Directly, fast and reliable.

CLEARFIL™ REPAIR

Five innovative high quality components
make CLEARFIL REPAIR KIT a sound allrounder
that provides efficient, qualitative and highly
esthetical work in nearly no time.

Components

Clearfil SE Bond is the core of the repair kit. The self-etching light-curing bonding agent provides optimal physical properties together with ease of handling. SE BOND desensitizes and prepares adhesion to both enamel and dentine. Combined with Kuraray's PORCELAIN BOND ACTIVATOR it also achieves adhesion to dental porcelain.



Porcelain Bond Activator is a silane coupling agent that is used for restorations of ceramic objects. It guarantees strong adhesion to porcelain or composite restorations and at the same time convinces with utmost ease of handling – just mix with SE BOND PRIMER in proportion 1:1.



Alloy Primer is used to enhance adhesion of composites and acrylic resins to all dental (precious) metals. By using this coupling agent, tin plating is no longer necessary, thus providing significant saving of time and worksteps. It also maintains the biocompatibility when using precious metal alloys or galvanic elements. ALLOY PRIMER is best suited for intraoral as well as extraoral applications.



K-Etchant Gel is employed at cleaning of porcelain margins and for preparation of uncut enamel. It contains 40 % tixotropic phosphoric acid with additional benefits: On shaking the gel for thirty seconds, it changes viscosity – it becomes more fluent. After application, K-ETCHANT turns into gel again, thus ensuring that it won't flow into areas that shall not be etched.



Clearfil ST Opaquer – As the perfect solution for dark translucent underlying metal constructions Kuraray presents the CLEARFIL ST OPAQUER. The light-curing opaque composite safely masks all metal components and gives way to solutions that satisfy even the highest esthetical demands.



Clinical procedures

1. Preparation of fractured surfaces



1. Facing material surface
Using a diamond point, remove a layer of the fractured surface, and place a bevel at the marginal area.
2. Metal surface
Roughen the metal surface with a diamond point.

2. Acid etching of facing material surface



1. Apply K-ETCHANT GEL to the facing material surface and leave it in place for 5 seconds before washing and drying. If the adherent surface extends to uncut enamel, apply K-ETCHANT GEL and leave it in place for 10 seconds before washing and drying.



2. After that, thoroughly rinse with water.



3. Dry with oil-free air.



4. Precious metal surface
When precious metal is used, apply ALLOY PRIMER according to the manufacturer's instructions for use.

3. Silane treatment



1. Dispense one drop each of CLEARFIL SE BOND PRIMER and CLEARFIL PORCELAIN BOND ACTIVATOR into a well of the mixing dish and mix them.
2. Apply mixture to the facing material and metal surfaces with a sponge or a disposable brush tip. Leave it in place for 5 seconds. Use caution not to allow saliva or exudate to contact the treated surfaces. If the adherent surface extends to the tooth, leave mixture in place for 20 seconds.
3. After applying CLEARFIL SE BOND PRIMER, evaporate the volatile ingredients with a mild oil-free air-stream. The treated metal surface must be sufficiently dried; if not, adhesion might be seriously impaired.



4. Bonding



1. Dispense the necessary amount of CLEARFIL SE BOND Bond into a well of the mixing dish.
2. Apply CLEARFIL SE BOND Bond to the entire cavity wall with a sponge or a disposable brush tip.
3. Use a light air-stream to make the bond film as uniform as possible.
4. Light-cure CLEARFIL SE BOND Bond for 10 seconds with a visible light-curing activator



5. Applying the opaquer



1. Use opaque resin such as CLEARFIL ST OPAQUER for metal surface to prevent metal shine through.



2. Light-cure the composite for 40 seconds.

6. Light-curing composite filling



1. Place composite (e.g. CLEARFIL ST or AP-X) into the cavity, light-cure, finish and polish according to the manufacture's instruction for use.

