



DENTAL BONDING AGENT

CLEARFIL™ S³ BOND PLUS Flow Chart Sheet

[CLEARFIL TRI-S BOND PLUS]



KURARAY MEDICAL INC.
1621 Sakazu, Kurashiki,
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Case A

Direct restorations using light-cured composite resin

Case B

Cavity sealing as a pretreatment for indirect restorations

Case C

Treatment of exposed root surfaces

Case D

Intraoral repairs of fractured restorations made of porcelain, ceramic or composite resin

Case E

Surface treatment of prosthetic restorations made of porcelain, ceramic or composite resin

Case F

Surface treatment of dental posts

Case G

Post cementation and core build-ups using dual-cured composite resin **CLEARFIL™ DC CORE PLUS**

Case H

Core build-ups using light-cured composite resin

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①

Case A

DENTAL BONDING AGENT
CLEARFIL[®] S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Direct restorations using light-cured composite resin

Follow the standard procedures for moisture control, cavity preparation and pulp protection

<p>1 Apply BOND to the cavity wall</p> <p>10sec.</p> 	<p>2 Dry with mild air*1</p> <p>more than 5sec.</p> 	<p>3 Light-cure*2</p> <p>10sec.</p> 
<p>4 Place composite resin, light-cure and finish</p> 		

*1 Dry the entire cavity wall sufficiently until BOND does not move.

Use a vacuum aspirator to prevent BOND from scattering.

*2 For dental curing unit details refer to the instructions for use.

②

A

Case B

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Cavity sealing as a pretreatment for indirect restorations

Follow the standard procedures for moisture control, cavity preparation and pulp protection



Case C

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Treatment of exposed root surfaces

Follow the standard procedures for moisture control, cavity preparation and pulp protection



*1 Dry the entire cavity wall sufficiently until BOND does not move. Use a vacuum aspirator to prevent BOND from scattering.

④

Case D-1

DENTAL BONDING AGENT
CLEARFIL S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Intraoral repairs of fractured restorations made of porcelain, ceramic or composite resin (1/2)

When using the mixture of BOND and CLEARFIL PORCELAIN BOND ACTIVATOR for silane treatment

<p>1 Roughen the adherent surface, wash and air dry</p> 	<p>2 Apply K-ETCHANT GEL to the adherent surface</p>  <p>5 sec.</p>	<p>3 Wash and air dry</p> 
<p>4 Apply ALLOY PRIMER to the precious metal surface and dry</p> 	<p>5 Apply the mixture of BOND and ACTIVATOR*1 to the adherent surface</p>  <div data-bbox="729 621 1011 818"> <p>Adherent surface NOT including the tooth 5 sec.</p> <p>Adherent surface includes the tooth 10 sec.</p> </div>	

*1 ACTIVATOR: CLEARFIL PORCELAIN BOND ACTIVATOR

⑤-1

Case D-1

DENTAL BONDING AGENT
CLEARFIL™ S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

**Intraoral repairs of fractured restorations made of porcelain,
ceramic or composite resin (2/2)**

When using the mixture of BOND and CLEARFIL PORCELAIN BOND ACTIVATOR for silane treatment



- *1 Dry the entire cavity wall sufficiently until BOND does not move.
Use a vacuum aspirator to prevent BOND from scattering.
- *2 Use an opaque resin (e.g. CLEARFIL ST OPAQUER) to mask metal color.

⑤-2






Case D-2

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Intraoral repairs of fractured restorations made of porcelain, ceramic or composite resin (1/2)

When using other silane-coupling agents for silane treatment, and applying BOND on the tooth surface

<p>1 Roughen the adherent surface, wash and air dry</p> 	<p>2 Apply K-ETCHANT GEL to the adherent surface NOT including the tooth</p> <p>5sec.</p> 	<p>3 Wash and air dry</p> 
<p>4 Apply ALLOY PRIMER to the metal surface and dry</p> 	<p>5 Apply CLEARFIL CERAMIC PRIMER to the adherent surface*1 and dry</p> 	

* 1 porcelain, ceramic or composite resin

⑥-1

Case D-2

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

**Intraoral repairs of fractured restorations made of porcelain,
ceramic or composite resin (2/2)**

When using other silane-coupling agents for silane treatment, and applying BOND on the tooth surface



*2 Dry the entire cavity wall sufficiently until BOND does not move.
Use a vacuum aspirator to prevent BOND from scattering.

*3 Use an opaque resin (e.g. CLEARFIL ST OPAQUER) to mask metal color.

⑥-2

Case E

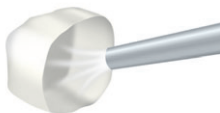
DENTAL BONDING AGENT **CLEARFILTM S³ BOND PLUS** [CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Surface treatment of prosthetic restorations made of porcelain, ceramic or composite resin

1

As necessary, blast to the adherent surface with alumina powder*1 and clean with ultrasonic (2 min)



*1 Air pressure : 0.1-0.4 MPa (14~58 PSI)

2

Apply K-ETCHANT GEL, leave in place for 5sec., wash and air dry



3

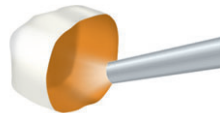
Apply the mixture of BOND and ACTIVATOR*2



4

Dry with mild air

more than 5sec.



5

Cementation with resin cement



E

*2 ACTIVATOR: CLEARFIL PORCELAIN BOND ACTIVATOR

⑦

Case F

DENTAL BONDING AGENT
CLEARFIL S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Surface treatment of dental posts

When using glass fiber posts

1a

Apply K-ETCHANT GEL,
leave in place for 5sec.,
wash and air dry



1b

Apply the mixture of
BOND and ACTIVATOR*1

5sec.



1c

Dry with mild air

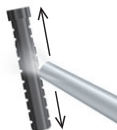
more than 5sec.



When using non-precious metal posts

2a

Blast with alumina
powder



2b

Apply BOND

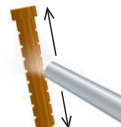
5sec.



2c

Dry with mild air

more than 5sec.



*1 ACTIVATOR: CLEARFIL PORCELAIN BOND ACTIVATOR

⑧

F

Case G

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Post cementation and core build-ups using dual-cured composite resin **CLEARFILTM DC CORE PLUS** (1/2)

Follow the standard procedures for moisture control and preparing root canal

1

Treatment of post surface



When using glass fiber post

Treat the post surface according to "Case F" or apply silane coupling agent

When using metal post

Treat the post surface according to "Case F" or apply a metal adhesive primer

2

Apply BOND to the cavity wall



3

Dry with mild air*1



4

Remove excess BOND with a paper point



5

Dry with mild air again



G

*1 Dry the entire cavity wall sufficiently until BOND does not move. Use a vacuum aspirator to prevent BOND from scattering.

⑨-1

Case G

DENTAL BONDING AGENT
CLEARFIL™ S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Post cementation and core build-ups using
dual-cured composite resin **CLEARFIL™ DC CORE PLUS** (2/2)

6 Light-cure



7 Post cementation and core build-ups using CLEARFIL™ DC CORE PLUS according to the manufacturer's instructions



G

9-2

Case H

DENTAL BONDING AGENT
CLEARFILTM S³ BOND PLUS
[CLEARFIL TRI-S BOND PLUS]

KURARAY MEDICAL INC.

Core build-ups using light-cured composite resin

Follow the standard procedures for moisture control, preparing root canal and post cementation



Note : Apply Case H only when the adherent surface is light accessible.

*1 Dry the entire cavity wall sufficiently until BOND does not move.
Use a vacuum aspirator to prevent BOND from scattering.

H

(10)