

Transbond™ PLUS

Color Change Adhesive in Syringes or Capsules

Instructions For Use



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Warning: Transbond™ PLUS Color Change Adhesive contains acrylate monomers. Acrylate monomers are known to produce allergic skin reactions in certain sensitive individuals. May cause eye and skin irritation.

Precautions: Avoid eye and skin contact. Wear gloves when handling this material.

First aid: Eye contact: Immediately flush with plenty of water. See a physician if irritation persists.

Skin contact: Wash affected area with soap and water. See a physician if irritation persists.

Precaution: Please follow manufacturer's directions on the handling, proper use and recommendations for eye protection, when using a curing light.

Caution: Porcelain Crowns or Facings: Care must be taken when bonding to porcelain crowns or facings as debonding may cause chipping, delamination or breakage of the crown. Do not bond to porcelain crowns that have thin facings or that appear to be compromised. Prepare the porcelain crown to be bonded by using a porcelain primer such as 3M RelyX™ Ceramic Primer. Follow instructions included with the porcelain primer.

Important: Replace syringe or capsule cap immediately after each use. Exposure to light will cause the color to fade and the adhesive to begin to cure if uncapped syringe or capsule is exposed to light.

Indications For Use: Transbond PLUS Color Change Adhesive is designed for bonding ceramic and metal orthodontic brackets. Transbond PLUS Color Change Adhesive is not indicated for use with plastic (polycarbonate) brackets. Transbond PLUS Color Change Adhesive is not indicated for use with other orthodontic applications where the cured adhesive is exposed and not covered by appliances.

Note: Transbond PLUS Color Change Adhesive features a unique color-change adhesive that is pink upon extrusion from the syringe or capsule. The pink color may assist in positioning and/or adhesive flash clean-up. The adhesive color begins to fade under ambient light and completely fades after light-curing. Therefore brackets must be coated at chairside when the patient is ready for bonding. If brackets are coated with adhesive prior to tooth preparation color may begin to fade and the adhesive may begin to cure. Please note that the fading of the color is not an indication of cure.

Note: Indirect Bonding Using Transbond PLUS Color Change Adhesive

- Because of the hydrophilic nature of the Transbond PLUS Color Change Adhesive, it is not as effective for indirect bonding as a hydrophobic adhesive, such as Transbond™ XT Adhesive. However, if Transbond PLUS Color Change Adhesive is chosen to be used for indirect bonding, best results will be achieved when the stone model is thoroughly dried before placing the brackets. After pouring the ortho stone into the impression, the stone model should be dried overnight under ambient conditions or in an oven at 110°F (43°C).
- After removing the indirect bonding tray from the stone model, rinsing and drying, you may observe a cloudy white layer on the custom resin base.

This white color is caused by a very thin surface layer of Transbond PLUS Color Change Adhesive resin. Subsequent microetching or cleaning (e.g. using a toothbrush) of the custom resin base will remove this layer, and should provide adequate bond strength. This whitish layer only occurs during indirect bonding.

- It is strongly recommended that a secondary cure of the custom resin bases be performed by directly exposing the tray to a light source to achieve a complete cure.

Note that direct bonding of Transbond PLUS Color Change Adhesive coated brackets is not affected by the hydrophilic properties of the adhesive.

A. Tooth Preparation

Preparation with Transbond™ Plus Self Etching Primer, please refer to Instructions For Use REF 011-581.

Preparation with Conventional Etchant and Primer

1. Prophyl teeth with an oil-free pumice or paste. Rinse with water. Figure 1.
2. Isolate teeth.
3. Air dry thoroughly using oil-free and moisture-free air source. Figure 2.



B. Acid Etching

1. If using Transbond™ Plus Self Etching Primer, proceed to Option 3: Priming Surfaces with Transbond Plus Self Etching Primer steps below. Otherwise, continue with acid etching.
2. Apply Unitek™ Etching Gel (REF 712-039) to tooth surfaces following the instructions provided with the etching gel delivery system. If using other gel etching systems, consult the manufacturer's instructions for proper technique and recommended etching times.
3. Rinse with water.
4. Air dry thoroughly using oil and moisture-free air source.

C. Priming Teeth

Option 1: Priming Surfaces with Transbond™ XT Primer

For detailed instructions on Transbond XT Primer, please refer to REF 011-519.

Option 2: Priming Surfaces with Transbond™ MIP Moisture Insensitive Primer

For detailed instructions on Transbond™ MIP Moisture Insensitive Primer, please refer to Instructions For Use REF 011-563.

Option 3: Priming Surfaces with Transbond™ Plus Self Etching Primer

For detailed instructions on Transbond Plus Self Etching Primer, please refer to REF 011-581.

D. Adhesive Application from Capsules

Note: Do not apply adhesive onto brackets until patient is ready to be bonded.

1. To insert capsule into dispenser, open dispenser handle as wide as possible. Pull plunger toward opened handle. Place capsule tip into the barrel slot. Figure 3.
2. Seat the capsule in the barrel by pushing the capsule forward (away from the handle) as far as possible. (Figure 4). Push plunger towards capsule. Close handle grip until plunger contacts capsule. Remove the cap from the capsule.



3. Dispense a small amount of Transbond PLUS Color Change Adhesive paste onto bracket base using a slow, steady pressure. (Figure 5). **When completed wipe capsule tip clean and replace cap.**



4. To remove the used capsule, open the dispenser handle as wide as possible. Pull plunger away from capsule. Push the capsule toward the plunger. (Figure 6). Turn dispenser upside down to drop capsule into hand.



E. Adhesive Application from Syringes

Note: Do not apply adhesive onto brackets until patient is ready to be bonded.

With the syringe apply a small amount of Transbond PLUS Color Change Adhesive paste onto bracket base. Use sparingly. When completed wipe syringe tip clean and replace cap.

F. Placement and Curing

1. Immediately after applying adhesive, lightly place bracket onto tooth surface.
2. Adjust bracket to final position, press firmly to seat bracket.
3. Gently remove excess adhesive around appliance base. The pink color aids in flash removal. Figure 7.



Note: If final positioning will be delayed, cover patient's mouth with a dark colored mask or other article to avoid premature curing and fading of the pink color by ambient light.

4. Hold the curing light stationary at a distance of 2-3 mm above interproximal contact for metal appliances and perpendicular to ceramic appliance surface.

Refer to the chart to determine the curing conditions for optimal bond strength. If your curing light does not appear on this chart, please refer to your light manufacturer's instructions for curing conditions.

A technique tip for faster light curing of metal brackets is to position the curing light guide interproximal to two brackets. Figure 8. However, in order for the bracket to **fully cure, both sides of the bracket must be cured.**



Precaution: Please follow manufacturer's directions for the handling, proper use and eye protection recommendations when using a curing light.

5. Archwires can be placed immediately after bonding of last bracket.

G. Disinfection Information

Please refer to literature 011-650, "Reprocessing Instructions For Use".

H. Storage and Use

1. Do not expose materials to elevated temperatures or intense light. Bring to room temperature prior to use.
2. Do not store material in proximity to eugenol-containing products as this may inhibit the proper adhesive curing.
3. This system is designed to be used at room temperature (68°F - 77°F, 20°C - 25°C).
Storage between 2°C-27°C/35°F-80°F
4. Shelf-life at room temperature is per the expiration date on the kit box. Rotate inventory to optimize shelf life.
5. Light Sensitive Do not expose uncured Transbond PLUS Color Change Adhesive to ambient light for extended periods of time. When not in use, store syringes with caps at room temperature.

Contents of Transbond PLUS Color Change Adhesive Syringe Kit (REF 712-101)

Item Description

2 Adhesive Paste Syringes (4gm each)

Contents of Transbond PLUS Color Change Adhesive Capsule Kit (REF 712-102)

Item Description

25 Adhesive Paste Capsules (0.2gm each) (REF 712-104)

1 Dispensing Gun (REF 712-032)

Appliance with Transbond™ PLUS Color Change Adhesive	Ortholux™ LED Curing Light (App. 1000 mW/cm²) (LED)	Ortholux™ Luminous Curing Light (App. 1600 mW/cm²) (LED)
Metal Brackets	5 seconds mesial + 5 seconds distal	3 seconds mesial + 3 seconds distal
Ceramic Brackets	5 seconds through the bracket	3 seconds through the bracket
Bondable Buccal Tubes	10 seconds mesial + 10 seconds occlusal	6 seconds mesial + 6 seconds occlusal

3M

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