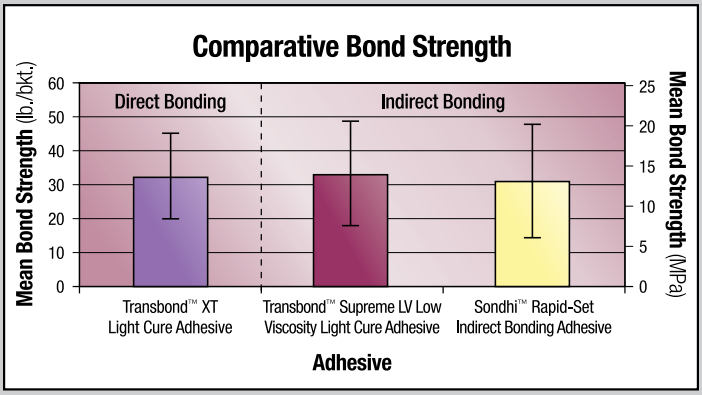
# Transbond™ Supreme LV
## Low Viscosity Light Cure Adhesive

- **On-demand flowable characteristics**
- **Indirect bonding or direct light cure applications**
- **Nanofillers for excellent strength, flow and wear properties**
- **Efficient, low-waste syringe dispenser**
- **Compatible with all 3M Unitek primers**

Transbond™ Supreme LV Low Viscosity Light Cure Adhesive is a flowable orthodontic adhesive advantageous for indirect bonding or wherever a flowable light cure adhesive may be indicated. This adhesive represents the latest addition to the growing Transbond Adhesive family that offers high quality bonding solutions over a complete spectrum of orthodontic applications.

Transbond Supreme LV adhesive flows when dispensing from the syringe, but stays in place without slumping or running prior to light curing. Convenient metal syringe tips help you accurately dispense the desired amount of adhesive without waste or run-on, making it economical as well as practical.

Taking advantage of proprietary 3M nanotechnology fillers, Transbond Supreme LV adhesive features excellent strength, flow and wear properties. Laboratory tests show bond strength characteristics similar to the high standards of Transbond™ XT Adhesive. And, it's compatible with all 3M Unitek primers including Transbond™ Plus Self Etching Primer and Transbond™ MIP Moisture Insensitive Primer, to make the bonding process even easier.




**Source:** 3M Unitek labs. Tested with upper central Victory Series™ Brackets.

| Part No. | Description | Unit |
|---|---|---|
| 712-046 | Transbond Supreme LV Low Viscosity Light Cure Adhesive Kit | Kit |
| | ***Kit includes:*** | |
| | Syringes | 2 each |
| | Metal Tips (pk 20) | 1 each |
| 712-045 | Tips | 20 tips/pack |

3M Unitek

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## Low Viscosity Light Cure Adhesive

## Frequently Asked Questions

**1. How can I cure the Transbond™ Supreme LV Low Viscosity Light Cure Adhesive?**

A. The adhesive can be cured with any high intensity orthodontic curing light that emits light in the 450 to 470 nm range. When curing the adhesive over an IDB tray the curing tip must be held flush against the tray.

**2. Is Transbond Supreme LV Adhesive moisture tolerant?**

A. No, the adhesive is not moisture tolerant.

**3. Does Transbond Supreme LV Adhesive release fluoride?**

A. No, this adhesive does not release fluoride.

**4. Is Transbond Supreme LV Adhesive a flowable adhesive?**

A. Yes, the adhesive contains a rheological modifier that gives it unique flowable characteristics. It is very soft when extruding from the syringe but is very stable when placed on bracket.

**5. Is Transbond Supreme LV Adhesive nano-filled?**

A. Yes, the adhesive contains filler produced with 3M's nanotechnology. The nanofiller gives Transbond Supreme LV Adhesive excellent strength, flow and wear properties.

**6. What kind of fillers does Transbond Supreme LV Adhesive contain?**

A. The adhesive contains a combination of silica and zironica nanofillers at a variety of particle sizes, from 5 to 75 nm.

**7. How should the teeth be prepared for bonding with Transbond Supreme LV Adhesive?**

A. The tooth surface should be clean and free of gross plaque and salivary pellicle. Standard etching techniques of phosphoric acid should be used. Alternately teeth can be treated with Transbond™ Plus Self Etching Primer after cleaning the teeth.

**8. What adhesives must be used to create the custom resin bases for indirect bonding with Transbond Supreme LV Adhesive?**

A. The custom resin bases necessary for indirect bonding can be created from most available orthodontic bonding adhesives. 3M Unitek recommends the use of Transbond™ XT Light Cure Adhesive or the APC™ II Adhesive System.

**9. Can Transbond Supreme LV Adhesive be used to direct bond brackets?**

A. While the strength of Transbond Supreme LV Adhesive is adequate for direct bonding, most clinicians will find that the flowable nature of the adhesive is not optimized for bracket stability and flash clean up required of direct bonding.

**10. Can Transbond Supreme LV Adhesive be used to indirectly bond metal and ceramic brackets?**

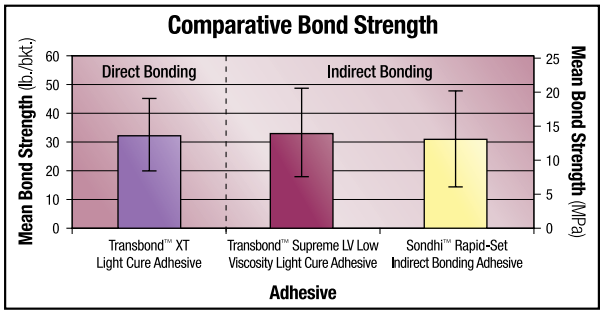
A. Yes. Because the adhesive bonds directly to the custom resin base and not the bracket bonding base, it can be used with all orthodontic brackets.

**11. How much Transbond Supreme LV Adhesive should be placed on the back of each bracket in the indirect bonding tray?**

A. Apply just enough adhesive and spread to cover the base as thin as possible to minimize adhesive flash.

**12. How does the bond strength of Transbond Supreme LV Adhesive compare to Transbond XT Light Cure Adhesive or Sondhi™ Rapid-Set Indirect Bonding Adhesive?**

A. The bond strengths are comparable when upper central Victory Series™ Brackets are tested on bovine teeth in the laboratory setting. *(See graph)*




**Source:** 3M Unitek labs. Tested with upper central Victory Series™ Brackets.

**13. Can Transbond Supreme LV Adhesive be used to bond lingual retainers?**

A. Clinicians may find the flow and polishing properties of Transbond Supreme LV Adhesive to their liking for bonding lingual retainers or other orthodontic applications where a flowable adhesive is indicated.

**14. Is Transbond Supreme LV Adhesive compatible with all 3M Unitek primers?**

A. Yes. Transbond Supreme LV Adhesive has been tested in the laboratory and found to be compatible with Transbond™ XT Primer, Transbond™ MIP Primer and Transbond™ Plus Self Etching Primer.

**15. How can the adhesive flash be removed from the enamel surface after the indirect bonding tray is removed?**

A. Adhesive flash should be removed carefully with a carbide bur, so as not to damage the enamel or disturb the bonded bracket.

**16. What is the curing time for Transbond Supreme LV Adhesive when cured through the clear or translucent indirect bonding tray?**

A. The recommend curing technique for Transbond Supreme LV Adhesive is 10 seconds from the mesial and distal sides of each bracket through the clear or translucent tray using an Ortholux™ LED Curing Light.

**17. Can the dispensing tips be used on more that one patient?**

A. No. The dispensing tips are disposable and are meant to be used on only one patient setup. Additional tips can be reordered as REF 712-045.

**18. What are the storage conditions for Transbond Supreme LV Adhesive?**

A. Transbond Supreme LV Adhesive should be stored between 2-27°C (35-80°F) and used at room temperature 20-25°C (68-77°F). Store away from direct light.


3M

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