

## TEROSON® BOND 60 CONTROLLED CURE

Known as TEROSON® PU 8630 2C HMLC  
August 2020

### PRODUCT DESCRIPTION

TEROSON® BOND 60 CONTROLLED CURE provides the following product characteristics:

<b>Technology</b>	Polyurethane
<b>Chemical Type</b>	Polyurethane
<b>Appearance (uncured)</b>	Black
<b>Components</b>	Two-components – requires mixing
<b>Viscosity</b>	Paste
<b>Cure</b>	Two-Component
<b>Application</b>	Windscreen Adhesive
<b>Environmental temperature at application</b>	5 to 45°C (41 to 113°F)
<b>Material application temperature</b>	60 to 70°C (140 to 158°F)
<b>In service temperature</b>	-40 to 90°C (-40 to 194°F)
<b>Short exposure (up to 1h)</b>	120°C (248°F)
<b>Safe Drive-Away time with airbag</b>	
<b>Crash Norm FMVSS 212/208 Crash Test 48 km/h, 100% head-on</b>	60 minutes
<b>Crash Norm New Henkel Crash Test Standard 64 km/h, 40% overlap</b>	2 hours
<b>Specific Benefits</b>	<ul style="list-style-type: none"> <li>• OEM approved</li> <li>• Excellent sag resistance and stringing</li> <li>• Compatible with ADAS (Advanced Driver Assistance Systems)</li> <li>• Homogeneous environmentally independent curing</li> <li>• High Shear modulus</li> <li>• Low conductivity</li> </ul>

TEROSON® BOND 60 CONTROLLED CURE is a two-component polyurethane adhesive. This windscreen adhesive cures independent from environmental conditions by using a B-component which will be mixed automatically to the A-component during application. The safe drive-away time according to FMVSS 212/208 stays regardless of humidity or temperature at 60 minutes. It has an excellent adhesion to glass, glass with ceramic coating, encapsulation and to painted surfaces in connection with a black primer. Typical applications include the bonding of front, rear and side screens to the body of passenger-, utility-, special- and

rail vehicles.

### TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 23°C 1.2

### TYPICAL CURING PERFORMANCE

Glazing time, minutes 25  
(from material application to inserting of the pane)

### TYPICAL PERFORMANCE OF CURED MATERIAL

Cured for 7 days @ 23°C, 50% RH

#### Physical properties

Shore hardness, Durometer A 60  
DIN53505  
Elongation at break, % 370  
DIN 53504  
Tensile strength N/mm<sup>2</sup> 9.5  
DIN 53504 (lb/in) (1,380)

#### Adhesive properties

Glass, layer thickness 5mm  
DIN 54451  
Lap shear strength N/mm<sup>2</sup> 4.5  
(lb/in) (650)  
Lap shear modulus N/mm<sup>2</sup> 3  
(lb/in) (440)

### GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Safety Data Sheet (SDS).**

### Direction For Use

#### Important

For application of primers, fillers, primer fillers, paints or other coatings, technical guidelines from manufacturers have to be considered and followed.

#### Pre-treatment

1. The substrate to be bonded must be dry and free from oil, dust, grease and other contaminations.
2. Check the new windscreen for damages or scratches and make sure it fits.



3. To obtain an optimal adhesion on the new screen we recommend 2 different surface preparation methods (solvent-based, TEROSON® VR 10 or water-based, TEROSON® BOND GLASS CLEANER):

Solvent-based Cleaning Process:

- a. Wipe off surface with a lint free cloth and TEROSON® VR 10.
- b. Abrade bond line with a smooth abrasive pad or wetted TEROSON® BOND SPONGE.
- c. Wipe off surface again with a lint-free cloth and TEROSON® VR 10.

Or

Water-based Cleaning Process:

- a. Clean surface with TEROSON® BOND GLASS CLEANER
  - b. Abrade bond line with wetted TEROSON® BOND SPONGE.
  - c. Apply TEROSON® BOND GLASS CLEANER again and dry off the bond line in one direction using a lint free cloth.
4. Wait at least 2 minutes after the cleaning process to allow all remaining residues to evaporate.
  5. Cleaning of the cut adhesive layer remaining on the window aperture is in general not necessary. If, however, cleaning of this remaining layer is needed, an evaporation time of at least 2 minutes is mandatory.

**Priming:**

1. Before opening the TEROSON® BOND ALL-IN-ONE-PRIMER bottle, shake well (at least 1 minute).
2. Apply primer with wool dauber in one pass on the bond line (allow to flash off for 2 minutes).
3. Within the first 2 hours after cutting back the old adhesive bead in the body frame, it does not need to be primed. But if the replacement takes longer than 2 hours, the old cut bead needs to be activated with TEROSON® BOND ALL-IN-ONE PRIMER. NOTE: Provided that it is not contaminated with dust or grease, the old cut adhesive bead is the best adhesive surface for the TEROSON® BOND 60 CONTROLLED CURE adhesive.
4. If windows are bonded which have been pre-coated with a primer or PU-based adhesive/sealant by the glass supplier, TEROSON® BOND ALL-IN-ONE-PRIMER is also suitable to ensure the correct adherence of TEROSON® BOND 60 CONTROLLED CURE to the pre-coating.
5. Using a wool dauber, a thin layer of TEROSON® BOND ALL-IN-ONE-PRIMER is applied to the pre-coating.

Allow to flash off for 2 minutes. Subsequently, TEROSON® BOND 60 CONTROLLED CURE is applied as usual, but taking into consideration the layer thickness of the pre-coating.

**Application**

1. Prior to its use, the cartridge of TEROSON® BOND 60 CONTROLLED CURE must be warmed to above 60°C. There are 2 heating devices which could be used. In the TEROSON® ET CR HEATING BOX 2PC minimum 30 minutes or in the TEROSON® ET CR FC HEATINGBOX 6PC device minimum 60 minutes.
2. After piercing top membrane, the B-component has to be screwed on the cartridge thread and application must be started immediately.
3. For application, we recommend using the dispenser TEROSON® POWERLINE II. Make sure to adjust the working pressure to 9 to 11 bar effective at the cartridge piston!
4. Application should be performed ideally in one continuous bead, if possible.
5. The Safe Drive-Away Time of TEROSON® BOND 60 CONTROLLED CURE must be respected.

**Storage**

Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

**Optimal Storage: 15 to 25 °C. Storage below 5 °C or greater than 25 °C can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

**Product Specification:**

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

**Approval and Certificate:**

Please contact a Henkel representative for related approval or certificate of this product.

**Data Ranges**

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23 °C / 50% RH = 23±2 °C / 50±5% RH



**Conversions:**

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\mu\text{m} / 25.4 = \text{mil}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{MPa} \times 145 = \text{psi}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

**Disclaimer:**

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