



Conti Secur® PREMIUM – instructions for rubber-metal bonding

Conti Secur® PREMIUM is the first one component adhesive system for cold bonding applications. It is designed specifically for cold splicing and cold repair of conveyor belts, but also for all areas of wear and corrosion protection. Continual high adhesion strength is achieved, even for dynamic demands.

Due to the combination of the well-established characteristics of adhesive systems with its new advantages, Conti Secur® PREMIUM is one of the most economical and user-friendly adhesives in the conveyor belt industry. Removing the need for an activator provides for easy processing and prevents the material from vulcanizing in the can. Partially used cans can therefore be stored again, and the remainder be used at a later time.

Storage:	At room temperature. If the adhesive is stored at temperatures of 6°C (43°F) or colder, the chloroprene rubber compound crystallizes. This leads to a change in viscosity. The adhesive becomes tacky. In this condition, because an optimum adhesion cannot be achieved, the solution cannot be used. However, after warming up the adhesive to room temperature, the product can be used again as described below.
Use:	Above 10°C (50°F).
Shelf life:	At least 18 months after date of production.
Heat resistance:	≤ 50°C (122°F), for short-term up to max. 80°C (176°F).

› Preparation of Conti Secur® PREMIUM

1. Obtain flat bottom, square edged rectangular stirrer made from wood or plastic (Note: not metal, not round). Insert stirrer squarely, ensuring flat edge is pressed firmly against the bottom of the can and the stirrer is pushed into the corner of the can. While pressing down firmly, completely scrape the can's bottom once.



2. Lift spatula out and inspect. There will be a large build up of solids. The buildup is a critical component of the adhesive.



Note: Do not discard!
Do not scrape off on the edge of the can!

3. Reinsert the stirrer into the can. Repeat scraping the entire bottom of the can two more times and stir using a fast up-down corkscrew motion until all solids have dissolved off the end of the stick. Product is now ready to use.

Note: Stir again before each use.

Attention: The product is highly sensitive to mixing after prolonged storage or transport. Cans must be mixed in the specific pattern described in this document. Vigorous shaking and/or stirring with pointed or round objects is not acceptable.

› Preparation of the material

4. The surfaces of the materials that are to be joined should preferably be at room temperature. If the temperature is too low, we recommend warming up the materials.
5. Etch the metal surface by sand-blasting or with the aid of an angle grinder. Remove all dust dry.



Note: Use a grinder grit size 16–24.
Minimum speed: 800 rpm
Maximum speed: 2000 rpm

6. Clean the surface of the metal part using Conti Cleaning Solution.

› Preparation of the material (continued)

7. a) In case the contact layer of the rubber is fresh, wash the material with Conti Cleaning Solution.



- b) In case the contact layer of the rubber is dry or the rubber has no contact layer, buff the surface of the rubber using a grinder. Remove all dust dry.



Note: Use a grinder grit size 40 - 60.
Minimum speed: 800 rpm
Maximum speed: 2000 rpm

8. Cut the rubber to size

› Bonding

9. Thoroughly stir metal primer ContiPlus® and apply one thin coat to the metal surface using a brush or a small nap roller.



Drying time: At least 30 minutes at room temperature. 60 minutes are suggested for optimal adhesion.

Note: Coated parts can be stored at room temperature for up to 24 hours when covered with plastic foil.

10. Apply the first thin coat of Conti Secur® PREMIUM to the metal surface. The coat should be very thin.



Drying time: At least 30 minutes at room temperature. 60 minutes are suggested for optimal adhesion. Check with the back of the hand.

Back of the hand test: At the optimum drying time the adhesive is tacky but does not transfer to the back of your hand. Rubber coated fabric gloves work best.

Caution: Do not use a brush with short bristles, as aggressive brushing could remove the ContiPlus® coating.

11. Apply the first thin coat of Conti Secur® PREMIUM to the rubber surface.



Drying time: At least 30 minutes at room temperature. 60 minutes are suggested for optimal adhesion. Check with the back of the hand.

Note: Use a brush with short bristles.

Caution: At room temperature the maximum drying time should not exceed 12 hours.

Note: If the contact layer of the rubber is fresh, one coat of Conti Secur® PREMIUM is usually sufficient. In this event, please skip this step 11 for the contact layer and prepare the contact layer together with the second coat of the base material (step 12).

12. Apply the second thin coat of Conti Secur® PREMIUM to the metal surface and the rubber surface.



Drying time: Maximum of 10 minutes at room temperature. Check with the back of the hand.

Note: A third application of Conti Secur® PREMIUM may be required if the surface of the rubber is particularly rough. In this event, repeat the instructions from step 11 before continuing with this step 12.

13. With a hand-held roller or a dead-blow hammer, press from the center to the edges. The required strength of contact pressure depends on the properties of the surfaces.



Note: Brief contact pressure is sufficient.

14. The above prepared material can be used after 6 hours. Optimum adhesion strength is attained after 24 hours.

