

**BARRIER CABLE GLANDS P..B SERIES – INSTRUCTIONS FOR USE**



The barrier cable glands type P..B are provided, in addition to the standard sealing rings, with a sealing chamber filled with a resin system, to meet the requirements of cl. 10.6.2 of IEC 60079-14. It presents a cylindrical flameproof joint between the sealing chamber and the body of the cable. These cable entries are foreseen, in accordance with the type, for armoured cables or non armoured cables; in accordance with the type, the cable gland can be realized with a simple sealing ring or double sealing ring.

**BARTEC F.N. Srl a Socio Unico**

Via M. Pagano 3 - 20090 Trezzano Sul Naviglio (MILAN) – ITALY  
Società soggetta ad attività di direzione, coordinamento e controllo da parte di TOP GROUP SPA

Tel +39 (0)2 484741  
Fax +39 (0)2 48474231  
Web www.bartec.com

E-mail info@bartec-fn.com  
PEC bartec-fn.pec@legalmail.it  
C.F. e P. IVA 04095610962

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## WEICON C Epoxy Resin - Application



WEICON C by Weicon is a temperature-resistant and flowable epoxy resin system for the filling of sealing chambers of P..B barrier cable glands made by Bartec FN.

The resin is noncorrosive, anti-magnetic and cures practically without shrinkage. For info about temperatures of use please refer to standard cable glands "Instructions for use". When using this product, the physical, safety related, toxicological and ecological data and regulations indicated in safety data sheet must be observed.

**Surface pre-treatment.** Before processing the resin ensure that the internal surface of cable gland sealing chamber and the wires of cable must be free of any oil, grease, dirt, rust, oxides paint or other impurities.

**Mixing.** Before adding the hardener, the resin must be stirred thoroughly and free of bubbles. Then mix the resin and the hardener thoroughly for at least four minutes at 20°C. To do so, use the included processing spatula or a Mechanical mixer. The component should be stirred until a homogeneous mixture is achieved. The mixing ratio of the two components must be strictly observed, as otherwise, strongly deviating physical values will result. Only mix a batch as large as can be processed within the pot life of 60 minutes. The specified pot life refers to a material batch of 500g and 20°C material temperature. Mixing larger quantities or higher processing temperatures will result in faster curing due to the typical reaction heat of epoxy resins.



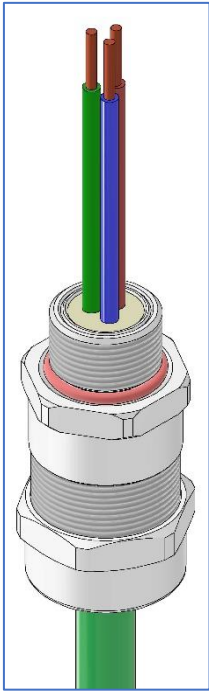
**Application.** For processing, we recommend an ambient temperature of 20°C (68°F) at less than 85% relative humidity. Make sure that the epoxy resin is applied evenly and without air bubbles. After 4h from the application the resin reaches the 35% of the final strength, and the cable gland could be handled.

Final hardness is reached after 24h at 20°C at the latest. At lower temperatures the curing can be accelerated by evenly applying heat up to max. 40°C, e.g. with a heating pack, hot air blower or fan heater. Temperatures below 16°C increase the curing time, until at approx. 5°C and below, almost no reaction will take place at all.

**Storage.** Expire date is indicated on resin pot. It's still valid if resin is stored at room temperature (from +18°C to +28°C), in a dry place.

For additional information on Weicon C or instructions in other languages refer to Weicon download center, [here](#).

## Filling and Final Mounting



- Filling the resin inside the sealing chamber up to reach (but not exceed) the top of sealing chamber; move gently the conductors to enable the resin to flow and ensure there are no air bubbles inside. After this, add more resin if necessary. This process also ensure that the resin has come in contact with all of the conductors.
- After 4h from the application the resin reaches the 35% of the final strength and the cable gland could be handled. Remove the thread protector and disassemble the cable gland; proceed with mounting the body of cable gland on enclosure and getting the final mounting, according to standard cable gland instructions.

