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RCN cable glands type "B"

Technical note on the use of epoxy resins

The purpose of this technical note is to clarify the importance of using genuine RCN resins with our cable glands type "B".
The RCN barrier cable glands type "B" have a small container inside the body to contain the epoxy resin necessary to seal the conductors.
These products are suitable to be used in applications where the mode of protection Ex d or Ex db is required with a barrier cable gland, in accordance with EN IEC 60079-14 regulation, in the paragraph relating to the selection of cable glands.
Most barrier cable glands are sold with a resin kit together with each cable gland and the price of the cable gland includes the cost of the resin.
In a move to meet customer's needs, RCN has decided on a strategy that will avoid unnecessary waste of surplus resin, that needs, at extra cost, to be handled by the customer, thus limiting costs and safeguarding the environment.
This can be achieved by RCN selling resin kits separately, in packs that allow partial use and storage for unused resin to be used at a later date.
The only authorized resins, as indicated in the cable gland instruction sheet, are the following:

Liquid epoxy resin type CW1302+HY1300
Epoxy resin type EPR+EPH
Particular attention should be paid to the ambient temperature of the cable gland in order to choose the correct combination of the rubber material and the most suitable epoxy resin, as shown in the table below, which can be found in the cable gland instructions.

Recapitulatory table of the environmental temperatures in function of the cable glands

Cable Glands Series	Termperature	Rubber Material	Resin Type
R	-40°C ≤ Ta ≤ +100°C	EPDM	-
R	-65°C ≤ Ta ≤ +220°C	Silicone	-
B	-40°C ≤ Ta ≤ +100°C	EPDM	CW1302+HY1300
B	-65°C ≤ Ta ≤ +180°C	Silicone	CW1302+HY1300
B	-40°C ≤ Ta ≤ +100°C	EPDM	RCN EPR+EPH
B	-60°C ≤ Ta ≤ +150°C	Silicone	RCN EPR+EPH

The use of other resins different from the ones indicated in the instruction sheet renders invalid the conformity to UE certificate and any responsibility passes to the installer in case of accidents caused by the failure of explosion protection that the certificated cable gland/resin system must provide.
The resin should be used in accordance with the instructions attached and following the cable gland instruction sheet.

Our technical service is at your disposal for any clarification.

Borgosesia, 12th October 2017

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