



GUROFLEX – Environmentally Friendly Casting Material for 1 kV Cable Joints

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The function of a casting material is to insulate electrical connections in underground cables and prevent water ingress from outside the joint or from within the cable.

GUROFLEX is an environmentally friendly, easy to handle, two-component, cold casting material based on hydrocarbons. Due to its elasticity, it is well-suited to accommodate thermal expansion of insulated cables, thereby preventing tears, breaks and cracks that could permit water ingress. It is an excellent insulating material with water-repellent properties. It covers and adheres to metal components and protects them from corrosion.

What is GUROFLEX made of?

GUROFLEX is a hydrocarbon resin. One of the outstanding advantages of this kind of resin is that it does not contribute to environmental problems because it is non-toxic and non-hazardous. It is not subject to any safety classification during use, transportation, or after its shelf life has expired. No special protective measures are required during handling. Hydrocarbon resins are generally known for their low water absorption, excellent electrical insulation properties and high elasticity over a wide temperature range.

How is GUROFLEX used?

Preparation of GUROFLEX takes place immediately before casting. The two components are mixed either in a double chamber bag or in a can, and then the cross-linking process starts. Unlike other chemical processes, this process produces no heat during the cross-linking reaction, thus avoiding splitting or cracking caused by shrinkage of the setting material.

Due to its soft-elastic consistency, GUROFLEX is re-enterable. It is also able to accommodate various coefficients of expansion of the joint components without splitting or cracking.

Why is GUROFLEX unique?

Compared with other resin types such as polyurethane and epoxy systems, GUROFLEX is easy to process and has outstanding properties; it is environmentally friendly, non-hazardous and generates no heat during curing. Furthermore, GUROFLEX is resistant to low temperatures and can be stored at temperatures as low as -20°C. Processing is possible at temperatures

as low as -10°C. Its low water absorption makes GUROFLEX moisture-resistant during curing and avoids the formation of foam or bubbles when it comes in contact with water.

Where can GUROFLEX be used?

GUROFLEX is suited for use in all cable joint systems with robust closures up to 1 kV. It is qualified according to CENELEC HD 623. It is suitable for filled XLPE, PE, PVC and paper-insulated cables. GUROFLEX is available in double chamber bags and cans of various sizes.



Technical data

Density	component A 1.36 g/cm ³ component B 0.94 g/cm ³
Viscosity at 20°C	component A 5000 mPa·s component B 5000 mPa·s
Dielectric strength	> 10 kV/mm
Minimum storage temperature	-20°C
Minimum installation temperature	-10°C
Shore hardness A	~ 20
Shelf life	2 years at 23°C
Colour	green

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