



FILLERS

GELGUM

LV

Dielectric strength:
≥ 20 kV/mm
Cross linking time:
fast (about 10 min. at 25°C)
Volume resistivity:
≥ 2 x 10¹⁴ Ω cm
Operating temperature:
-60°C / +200°C
**Overload temperature
for short periods:**
up to 250°C
Stabilised for:
mould-UV
Degree of protection:
IP68 (in proper casings)

IP68
OFFICIALLY
TESTED

IMQ

Techno Gel Gum

Single bottle two-component insulation with very high dielectric, thermal and sealing characteristics. Waterproof and re-enterable!

TechnoGelGum is a strong hold flexible elastomer whose formula has been optimised for the protection of POWER CABLE, TELECOM CABLE and ELECTRONIC CIRCUIT connections. A new recipe that gives the product a surprising, original texture that combines the characteristics of GEL and RUBBER to emphasise its features. It's elastic and flexible like gel, but also tough and dry like rubber.

- For installations up to 1 kV
- Suitable for high temperatures
- Even suitable for high depths under water
- Waterproof > 1 MPa
- UV resistant
- Removable
- Vibration resistant
can act as a damper
- Suitable for installation in
salt water (sea) and in
chlorinated water (pools)
- Non toxic and safe

**EXTREMELY FLEXIBLE
AND WATER-REPELLENT**

**NEW EXCEPTIONALLY
STRONG CONSISTENCY**

TECHNO
GELGUM

FLEXIBLE LIKE GEL

STRONG LIKE RUBBER

**BORN TO BE
UNIQUE**

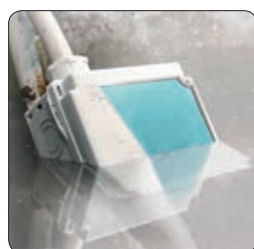
**Ray
Tech**

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Not quite a GEL and not quite RUBBER,
BUT HAS THE BEST FEATURES OF BOTH!



SAFE



WATERPROOF



RE-ENTERABLE

Product	Colour	Package type	Quantity
Techno Gel Gum	●	1 single, bi-component bottle 1 small basin - 1 mixing spoon	1 kg
Techno Gel Gum 500	●	1 single, bi-component bottle 1 small basin - 1 mixing spoon	500 gr

Installation sequence



Shake before using.



Pour TechnoGelGum into the provided beaker in a 1:1 ratio.


 Mix for 1 min. max.

 Pour within 1 min. max.

 In just 10 minutes the curing is completed.

**Ray
tech**



TECHNO GEL GUM

STRONG HOLD FLEXIBLE ELASTOMER

FOR THE INSULATION & SEALING OF ELECTRICAL CONNECTIONS

Insulating and sealing polymeric compound with fast crosslinking at room temperature, sticky, adhesive, re-enterable, suitable for filling. Suitable for anticorrosion protection. Non toxic and safe. High resistance to natural ageing. In suitable cases it gives a degree of protection of IP 68

The product is available in following sizes:

- **TECHNO GEL GUM** Single bottle for 1 kg of product
- **TECHNO GEL GUM 500** Single bottle for 500 gr of product
- **GEL GUM JOINT-L** Kit for line joints
- **GEL GUM JOINT-Y** Kit for branch joints

PROPERTY		TEST METHOD / NOTE	UNIT	TYPICAL VALUE
Physical	Aspect	-	-	Viscous fluid with good flowability
	Colour	-	-	Opaque light blue
	Viscosity at 23°C	On mixed product	-	A component: 8000 mPa.sec B component: 15000 mPa.sec Mixed: 11500 mPa.sec
	Gel time	-	Minutes	Approx 10 @ 23°C
	Setting time	-	Minutes	< 18 @ 23°C
		Higher temperatures → lower setting time; Lower temperature → higher setting time.		
	Exothermic temperature	-	°C	Non exothermic reaction
	Hardness	Penetration cone ASTM D 217/C	1/10 mm	Approx 200
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	Density	-	g/cc	1,05
	Thermal conductivity	-	W/mK	Approx 0,2
	Continuous working temperature	-	°C	-60 to +200°C
	Installation temperature	-	°C	-5 to +45°C
	Water absorption after 30 days immersion	-	%	<< 0,05%
Flammability	Flammability point	-	°C	>200
	Auto-ignition temperature	-	°C	>400
Electrical	Dielectric strength	-	kV/mm	>20
	Dielectric constant / Permittivity	-	-	< 5
	Power factor / Tan δ	-	-	< 5 exp -3
	Volume resistivity	-	Ω cm	>2 x 10 exp 14
	Degree of protection	EN 60529		IP 68 in proper casings
Use	Product removal facility after installation in casings	-	-	Very high

RAYTECH S.r.l.

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R.E.A. 1458135 • Iscr. Reg. Imp. MI 11325760152 • Capitale Sociale € 78000,00 i.v. • Part. IVA e C.F. 11325760152

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EXPOSITION TO CHEMICALS OF CROSSLINKED PRODUCT

Salt, salty water etc	have no adverse effect.
Sea water or chlorine environments (swimming pools etc.)	have no adverse effect.
Inorganic acids in water solutions	have not visible effects.
Strong, pure acids or alkaline (not in solution)	The exposition has to be avoided, especially at high temperature.
Alkaline solutions and vinegar	could bring, after a long time of exposition, to a softening of the external surface.
Solutions of hydrocarbons in water	could give, after a long exposition at quite high temperatures, the hardening of the external surface of the products; of course nothing happens for temporary expositions
Pure hydrocarbons	Permanent immersion in strong and pure hydrocarbons has to be avoided.

PRECAUTIONS FOR USE

WARNING	Shake before using
WARNING: TO BE POURED IN CLEAN AND DRY CLOSURES	Before opening and mixing the components, be sure that the closures are clean and dry, free from processing waste or powder or residues which can inhibit the correct cross linking Be aware Latex gloves, heavy metal salts, amines, sulphur and derivatives, catalysts of epoxy resins can inhibit the curing.
ATTENTION STAIN	If the product falls down on clothes or floor, it can stain and it is difficult to remove.
CLEANING OF THE STAINS ON THE FLOOR	if the product has fallen on the floor BEFORE CROSS LINKING, it is suggested to dry with a cloth the liquid, then strongly brush the floor with a normal, domestic floor cleaner (possibly "strong" type) and possibly finish the cleaning with the cloth moistened with a suitable chlorinated solvent, such as trichloroethylene; if the product is on the floor ALREADY CROSS LINKED, it is suggested to remove the gel with a spatula, and then strongly brush the floor with a normal, domestic floor cleaner (possibly "strong" type) and possibly finish the cleaning with the cloth moistened with a suitable chlorinated solvent, such as trichloroethylene; by experience products based on trichloroethylene could be suitable for removing, when available on the market and when used according to the relevant instructions.

SHELF LIFE

ATTENTION: The prolonged exposure to temperatures $\geq 40^{\circ}\text{C}$ is not recommended
The product has unlimited shelf life, if it is stored in a suitable way, in the original closed packages.
For precautions we recommend the use within 5 years.

SAFETY

The product has not been classified as hazardous according to the legislation in force. (Regulation (EC) No 1272/2008 as amended).

Settimo Milanese, 10/2018

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