

Magic Gel & Magic Fluid

Bicomponent gel with very high dielectric and thermal characteristics, ideal for connection systems (joint shells or enclosures) for power cables.

The insulating and sealing gel, when cast in suitable casings, ensures an IP68 degree of protection and it is able to replace all types of resins. This is a self-polymer insulation in bottle or in a single use bag, with cold cross linking. Once poured, the insulation, characterized by very low viscosity, surrounds and envelopes any type of material, cross linking in less than 10 minutes. Cross linking with a very slow isothermal peak that does not thermally stress the materials it comes into contact with.

Gel: UL 94-HB 

Dielectric strength:

>23 kV/mm

Cross linking time:

fast (about 10 min. at 23°C)

Volume resistivity:

>2 . 10¹⁵ Ω cm

Working 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

Nonfood
Compounds
P1



- For high temperature applications!
- Quick cross linking (only 10 minutes)
- Re-enterable also after long working periods
- The gel is not-classified as hazardous under the CLP Directive
- Low viscosity

**SINGLE
BOTTLE**



CLASSIC



**SINGLE
DOSE BAG**



**Ray
Tech**



Product	Colour	Package type	Total quantity
Magic Gel 300	●	2 bottles	300 ml
Magic Gel 420	●	1 single, bi-component bottle 1 small basin - 1 mixing spoon	420 ml
Magic Gel 1000	●	2 bottles - 1 small basin - 1 mixing spoon	1000 ml
Magic Gel 2000	●	2 single, bi-component bottles 1 small basin - 1 mixing spoon	2 x 1000 ml
Magic Gel 10000	●	2 tanks - 1 small basin - 1 mixing spoon	10 lt

Magic Fluid 90	●	Bicomponent single dose bag	90 gr
Magic Fluid 110	●	Bicomponent single dose bag	110 gr
Magic Fluid 170	●	Bicomponent single dose bag	170 gr
Magic Fluid 210	●	Bicomponent single dose bag	210 gr
Magic Fluid 420	●	Bicomponent single dose bag	420 gr
Magic Fluid 550	●	Bicomponent single dose bag	550 gr

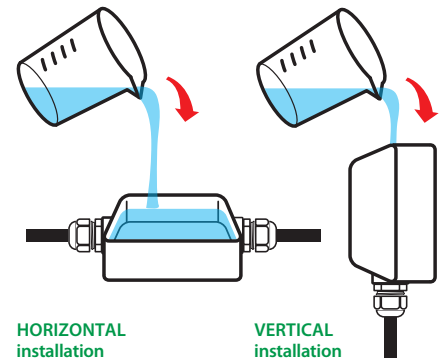


Problem ENERGY

What does a gel for this type of system have to give?

- ✓ **INSULATION:** Elevated voltages (1 kV operating, 4 kV testing)
- ✓ **THERMAL PERFORMANCE:** Operating temperature 90°C, overload temperature 130°C, short circuit temperature 250°C
- ✓ **SEALING:** Installations also possible in humid environments, flooded wells
- ✓ **DEGREE OF PROTECTION:** Must also work with water between the cores of the cable
- ✓ **CERTIFIED SYSTEMS:** The combination of insulation gel + casing must comply with current standards CEI 20-33 and EN 50393

Solution: *Magic Gel* meets all your Energy system requirements!



HORIZONTAL installation

VERTICAL installation



Raytech