



Magic Power Gel

The unique bi-component gel in a single bottle, with superior dielectric, sealing and thermal characteristics, re-enterable and re-usable!

- Very sticky
- Strong self amalgamating characteristics
- Single compact bottle; convenient twin compartment
- Re-usable as well as re-enterable, even after long working periods
- It doesn't give any waste
- Non toxic and safe

INSULATING and SEALING GEL



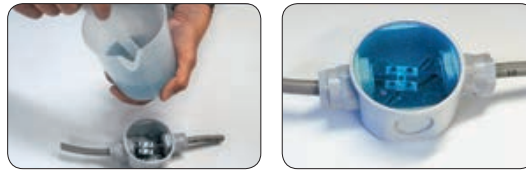
RE-ENTERABLE



RE-USABLE



New



Stickiness

- Exceptional sealing properties in any condition
- Better resistance to pressure
- Effective even in vertical or ceiling applications

Self-agglomerating

- Once cross linked it perfectly adheres on itself characteristics to get an homogeneous and compact mass
- It can be therefore applied in multiple layers

Zero waste

- Due to the nature of the product waste is eliminated; even residual product can be saved and used for the next application
- Also any left over product maintains it's high performance characteristics

Single bottle

- Highly useful
- The most compact packaging
- Less space occupied in the toolbox
- Both components in the same packaging



For all types of connections, even in the toughest conditions, for power, telecom and signalling!

Product	Colour	Package type	Quantity
Magic Power Gel	●	1 single, bi-component bottle 1 small basin - 1 mixing spoon	1000 ml
Magic Power Gel 500	●	1 single, bi-component bottle 1 small basin - 1 mixing spoon	500 ml
Magic Power Gel 250	●	1 single, bi-component bottle	250 ml
Magic Power Gel Bag 150	●	Bicomponent single dose bags	150 ml
Magic Power Gel Bag 250	●	Bicomponent single dose bags	250 ml

Gel: UL 94-HB

Dielectric strength:

>23 kV/mm

Cross linking time:

fast (about 15 min. at 25°C)

Volume resistivity:

>2 . 10¹⁵ Ω cm

Operating temperature:

-60°C / +200°C

Overload temperature

for short periods:

uo to 250°C

Stabilised for:

mould - UV

Degree of protection:

IP68 (in proper casings)

IP68
OFFICIALLY
TESTED | **IMQ**



**Ray
Tech**



MAGIC POWER GEL

SELF AMALGAMATING INSULATING AND SEALING GEL

Insulating and sealing polymeric gel with fast cross linking at room temperature, sticky, adhesive and self-agglomerating, re-enterable and re-usable, 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:

- single bottle under trade name **MAGIC POWER GEL**:
Magic Power Gel 250, Magic Power Gel 500 and Magic Power Gel 1000;
- bicomponent single dose bags under the trade name of **MAGIC POWER GEL BAGS**:
Magic Power Gel Bag 150, Magic Power Gel Bag 250;
- in KIT IP68 under the trade name **POWER KIT**;
- as filler for all joints type **MAGIC POWER JOINT**.

PROPERTY		TEST METHOD / NOTE	UNIT	TYPICAL VALUE
Physical	Aspect	-	-	Fluid
	Colour	-	-	Blue transparent
	Viscosity at 23°C	On mixed product	-	Approx 1500-3000 mPa.sec
	Gel time	-	Minutes	Approx 7-9 @ 25°C
	Setting time	-	Minutes	< 15 @ 25°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 250
				0 shore 00
	Density	-	g/cc	0,96
	Thermal conductivity	-	W/mK	Approx 0,2
	Continuous working temperature	-	°C	-60 to +200°C
	Installation temperature	-	°C	-15 a +55°C
				-40 a + 60 °C if already crosslinked
Water absorption after 30 days immersion	-	%	<< 0,05%	
Flammability	Flammability point	-	°C	>200
	Auto-ignition temperature	-	°C	>400


RAYTECH S.R.L.

Via Enrico Fermi, 11/13/17 ● 20019 Settimo Milanese (MI) - Italy

Tel +39.02.33500147 ● Fax: +39.02.33500287 ● info@raytech.it ● www.raytech.it

R.E.A. 1458135 ● Iscr. Reg. Imp. MI 113225760152 ● Capitale Sociale € 78000,00 i.v. ● P.IVA e C.F. 11325760152 ● No. Iscr. Reg. AEE IT19020000011121

TDS_MAGIC_POWERGEL - 1/2

PROPERTY		TEST METHOD / NOTE	UNIT	TYPICAL VALUE
Electrical	Dielectric strength	-	kV/mm	>23
	Dielectric constant / Permittivity	@ 1kHz	-	< 5
	Power factor / Tan δ	@ 1kHz	-	< 5 exp -3
	Volume resistivity	-	Ω cm	>2 x 10 exp 15
	Degree of protection 	EN 60529		IP 68 in proper casings
Use	Product removal facility after installation in casings	-	-	Very high
	"Self fusing" property of a new layer of product on the previous one	-	-	Very High
	"Self fusing" property of the cross linked product on itself	-	-	Exceptional

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: 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 CLEANING OF THE STAINS ON THE FLOOR	If the product falls down on clothes or floor, it can stain and it is difficult to remove. 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. 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, 12/2019

RAYTECH S.R.L.

Via Enrico Fermi, 11/13/17 ● 20019 Settimo Milanese (MI) - Italy

Tel +39.02.33500147 ● Fax: +39.02.33500287 ● info@raytech.it ● www.raytech.it

R.E.A. 1458135 ● Iscr. Reg. Imp. MI 113225760152 ● Capitale Sociale € 78000,00 i.v. ● P.IVA e C.F. 11325760152 ● No. Iscr. Reg. AEE IT19020000011121

TDS_MAGIC_POWERGEL - 2/2