



MAGIC GEL & MAGIC FLUID
INSULATING AND SEALING FLUID

Insulating and sealing polymeric fluid with fast cross linking at room temperature, for filling of closures, boxes, terminal blocks etc.. Suitable for anticorrosion protection. Non toxic and safe. High resistance to natural ageing.



MAGIC GEL & MAGIC FLUID are UL Recognized Components

For additional information see the UL Online Certifications Directory at www.ul.com/database

The product is available in following sizes:

- Bottles/tanks, under trade name **MAGIC GEL**:
Magic Gel 300, Magic Gel 1000, Magic Gel 2000 e Magic Gel 10000
- In bicomponent sachets from 90 to 550 ml under the trade name **MAGIC FLUID**
- In KIT IP68 under the trade name **MAGIC BOX (containing MAGIC FLUID)**
- As filler for all joints type **MAGIC JOINT (containing MAGIC FLUID)**

PROPERTY		TEST METHOD / NOTE	UNIT	TYPICAL VALUE
Physical	Aspect	-	-	Fluid
	Colour	-	-	Blue transparent
	Viscosity at 23°C	On mixed product	-	Approx 1600 mPa.sec
	Gel time	-	Minutes	Approx 5 @ 25°C
	Setting time	-	Minutes	< 10 @ 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 200
				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	-5 to +45°C	
Water absorption after 30 days immersion	-	%	<< 0,05%	
Flammability	Flame class	UL 94	-	HB
	Flammability point	-	°C	>200
	Auto-ignition temperature	-	°C	>400
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

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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: TO BE Poured IN CLEAN AND DRY CLOSURES	<p>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</p> <p>Be aware Latex gloves, heavy metal salts, amines, sulphur and derivates, catalysts of epoxy resins can inhibit the curing.</p>
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	<p>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;</p> <p>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;</p> <p>by experience products based on trichloroethylene could be suitable for removing, when available on the market and when used according to the relevant instructions.</p>

SHELF LIFE	
ATTENTION: The prolonged exposure to temperatures $\geq 40^{\circ}$ 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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