





Raytech GEL

Insulating, shock absorbing silicone gel.

DISCOVER THE RAYTECH

Raytech Gel is an insulating, sealing, permanently soft innovative gel with fast cross linking at room temperature. It is particularly suitable for filling casings, drawers, etc... Recommended for use to protect against corrosion and for shock-absorbing cushioned packaging. Non-toxic and perfectly safe, Raytech Gel has no shelf life and an excellent resistance to ageing. Highly re-enterable.

Standard cross linking time (pot life) is 5 mins. at + 23°C.



Colours available in all formats: blue, red



Colours available in 400 kg cans: green, yellow and transparent

Appearance: Fluid

Viscosity at 23°C (on mixed product): Approx. 1600 MPas

Mixing ratio: 1:1

Standard gel time at + 23°C: Approx. 5 minutes

Hardness (ASTM D 217/C cone penetration-unit 1/10 mm): 200

Specific weight: Approx. 1 g/cm³

Thermal conductivity: Approx. 0.2 W/m°K

Flash point: $> 200^{\circ}$ C

Self-igniting temperature: > 400 °C **Dielectric strength:** > 20 kV/mm

Ease of removal once installed in casing: Very high

Self-welding properties of a new layer over the first: Very high





Ray-RTV

Fast cross linking bicomponent liquid silicone rubber.

Ray-RTV is the new range of bicomponent silicone developed by Raytech's laboratories. Non-toxic, safe and with no shelf life, Ray-RTV cross links quickly at room temperature, becoming a rubber with high mechanical, thermal and elastic characteristics. The standard product is available in black color with a pot life (cross linking time) of 7 to 9 minutes at + 23°C and hardness 30 Shore A. Other colours, hardnesses and pot life (cross linking) times are available on request for 400 kg cans.

Appearance: Fluid **Odour:** Odourless

Viscosity at 23°C (on mixed product): 4000 - 6000 MPas

Mixing ratio: 1:1

Standard working time at 23°C: 7-9 minutes Hardness (Shore A after 24 hours): Approx. 30

Specific weight: Approx. 1.24 g/cm³ Operating temperature: -60 / +200°C Flame characteristics: Self-extinguishing Exothermic temperature: Non-exothermic reaction Tensile strength at break: Approx. 2.8 MPa Elongation at break: Approx. 350%

Thermal conductivity (DIN 52612): Approx. 0.2 W/m°K

Uses

 Preparation of non-stick moulds, profile reliefs, repair of damaged items (print relief).

Resistance to tearing: Approx. 8 N/mm

- · Sealing of balconies and terraces, roofs and chimneys, pits, guttering and downpipes.
- · Repair and reproduction of stuccos and friezes.
- · Sealing of tanks and water deposits.
- · Sealing of technical passages, etc.
- Rubber insulation and high temperature-resistant seals.
- · Reproduction of architectonic elements, statues, decorations, thanks to the high reproduction of details.
- Protective covering of compartments/rooms.
- Anti-corrosion applications.
- · Prototypes.



Bicomponent silicone rubber in mouldable paste.

Ray MOULD is a revolutionary bicomponent silicone rubber in paste form. It is easy to mix and to apply by hand, fast in cross linking, non-toxic and safe.

It has no shelf life. It has high mechanical and thermal characteristics and it is highly self-extinguishing. This makes it perfect for the preparing of moulds for all uses, for the relief of profiles, adaptations carried out on site, repairs of damaged items (print relief) and for subsequent pouring of materials at high temperatures. Uses range from technical articles to artistic purposes, scenery preparation, construction, hydraulics, electro-technical products, DIY, etc.

The standard product is available in light blue.

Appearance before mixing: Part A: white paste - Part B: blue paste

Final appearance: Light blue

Mixing ratio: 1:1

Working time at + 23°C: Approx. 2 minutes Cross linking time: Approx. 5 minutes Hardness (SHORE A): 32 - 34

Specific weight: 1.5 - 1.6 g/cm³ Tensile strength at break: 0.8 MPa Elongation at break: 150 %

Linear retraction during cross linking: Not significant

Dielectric strength: >20 kV/mm

Ease of removal once installed: Very high

Uses

- · Creation of chemical plugs and anchors.
- · Preparation of non-stick moulds, profile reliefs, repair of damaged items (print relief).
- · Repair and reproduction of stuccos and friezes
- · Anti-vibration for electrical appliances, seals for taps.
- · Anti-vibration for doors and windows.
- · Rubber insulation and high temperature-resistant seals.
- · Reproduction of architectonic elements, statues, decorations, thanks to the high reproduction of details.
- Protective covering of compartments/rooms
- · Circuit protection.
- · Fast prototyping.
- · Fireproof protection.
- Shock absorber.







Raytech GEL Ordering information



Product code	Package type	Total quantity of product	Colour
RAYTECH GEL 1000-5-B	2 bottles	1 lt	
RAYTECH GEL 2000-5-B	2 bottles	2 lt	
RAYTECH GEL 10000-5-B	2 tanks	10 lt	
RAYTECH GEL 250-5-B	Bag	250 ml	
RAYTECH GEL 400K-5-B	2 cans	400 kg	
RAYTECH GEL 1000-5-R	2 bottles	1 lt	
RAYTECH GEL 2000-5-R	2 bottles	2 lt	
RAYTECH GEL 10000-5-R	2 tanks	10 lt	
RAYTECH GEL 250-5-R	Bag	250 ml	
RAYTECH GEL 400K-5-R	2 cans	400 kg	
RAYTECH GEL 400K-5-V	2 cans	400 kg	
RAYTECH GEL 400K-5-G	2 cans	400 kg	
RAYTECH GEL 400K-5-T	2 cans	400 kg	
RAYTECH GEL 400K-60-T*	2 cans	400 kg	

^{*}Cross linking time (POT LIFE) 1 hr at + 23°C

Ordering information



Product code	Package type	Total quantity of product	Colour
RAY-RTV 10-30-N-1000	2 bottles	1 kg	
RAY-RTV 10-30-N-2000	2 bottles	2 kg	
RAY-RTV 10-30-N-10000	2 tanks	10 kg	
RAY-RTV 10-30-N-250	Bag	250 gr	
RAY-RTV 10-30-N-400K	2 cans	400 kg	

Other colours, hardnesses and pot life (cross linking) times are available on request for 400 kg cans. Ray-RTV is avaliable in bags up to 600gr.

Ray MOULD

Ordering information



Product code	Package type	Total quantity of product	Colour
RAY MOULD 025-A	2 tubs	250 gr	
RAY MOULD 050-A	2 tubs	500 gr	
RAY MOULD 50-A	2 cans	50 kg	

Cross linking time (POT LIFE) 5 mins. at + 23°C

Ray MOULD 50 are available to order (2 cans for a total of 50 kg) with different colours.













On request, Raytech Gel is available in 400 kg cans with colours and cross link times (pot lives) different to those specified in the table.















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SECTORS	OF APPLICATION	RAYTECH GEL	RAY RTV	RAY MOULD	RAY RESIN	MAGIC ONE ADHESIVE	RAY FAST ADHESIVE
	Construction		•	•		•	•
	Thermal hydraulics		•	•		•	•
	Hydraulics and sanitary fixtures		•	•	•	•	
AND HYDRAULICS	Engineering and architecture		•	•	•		
	Gardening/Articles for gardening			•		•	•
	Restauration		•	•	•		•
	Industrial and artisanal prototypes	•	•	•	•		
	Model making		•	•	•		
	Artisanal field		•	•	•	•	•
ARTISANAL AND	Pad printing		•	•			
NAVAL FIELDS	Candels and artistic applications	•	•				
	Ceramic industry and applications		•	•			
	Naval	•	•		•	•	•
	Metallurgical industry	-	•	•		-	
	Moulding and die creation			•	•		
INDUSTRY AND	A	•				•	
AUTOMOTIVE		-	-	-	-	-	
	Mechanics						
	Industrial lubrication						
	Camping	_	-	•			•
RELAX AND	Footware industry	•	•	•			
HOLIDAYS	Costume jewelery and jewelery		•	•		•	•
	D.I.Y		•	•	•	•	•
	Model making and hobbies	•	•	•	•	•	•
ELECTROTECHNICS	Electrotechnics, telecommunication				•	•	•
AND ELECTRONICS	Electronics and installations				•	•	•
	Energy				•	•	•
SCENOGRAPHY	Artistic		•	•	•		
	Scenography and theatre		•	•			
MEDICAL	Medical	•	•	•			
PHISYCAL	CHARACTERISTICS	RAYTECH GEL	RAY RTV	RAY MOULD	RAY RESIN	MAGIC ONE ADHESIVE	RAY FAST ADHESIVE
	Aspect as supplied	bicomp. liquid	bicomp. liquid	bicomp. paste	bicomp. liquid	1 comp. gel	1 comp. liquid
	Standard colors	Blue, red*	Black **	Light blue***	Amber	Translucent	Clear
	Density	approx 1	approx 1,24	1,5 - 1,6	approx 1,07	-	1,05
PHISICAL	Working time	-	арргол т,	approx 2 min	approx 20 min	-	10 to 20 sec
PROPERTIES	Skin formation		-	арргох 2 IIIIII -	арргох 20 IIIIII -	<15 min	-
	Cross linking (Pot life) at 23°C	approx 5 min	7 to 9 min		approx 50 min at 20°C	3 mm/24 h	-
	_	approx 5 min		Ductile and malleable		3 MM/24 N	
	Viscosity Working temperature (°C)			-60 to +200	100	-40 to +100	-
		-60 to +200	-60 to +200	-60 to +200 250			-
THERMAL PROPERTIES	Overload temperature (°C)	- approx 0.2 \M/mK	- 200rov 0.2 \M/mK		-	-	-
PHUFERILL	Thermal conductivity	approx 0,2 W/mK	approx 0,2 W/mK	approx 0,2 W/mK	-	-	-
	Fire characteristics	- 20 W//mm	Self extinguish.	Self extinguish.	-	-	-
	Dielectric strength (kV/mm)	> 20 kV/mm	> 18 kV/mm	> 20 kV/mm	-	-	-
ELECTRICAL	Permettivity	< 7	< 7	-	-	-	-
PROPERTIES	Tan ∂	< 6 exp -3	< 6 exp -3	-	-	-	-
	Volume resistivity Ω cm	> 1,5 x 10 exp 15	> 1,5 x 10 exp 15	> 1,5 x 10 exp 16	-	-	-
MECHANICAL	Elongation at break %	-	350	> 150	-	> 240	-
			approx 2,8	approx 0,8	_	2,2	Sanded steel >18 N/mm ²
PROPERTIES	Tensile strength (MPa)	-	approx 2,0	αρριολ ο,ο			
DURATION	Iensile strength (MPa) Shelf life	No shelf life	No shelf life	No shelf life	2 years	-	-

^{*}green, yellow and transparent available in cans of 400 kg

^{**}other colors available in cans of 400 kg

^{***}other colours available in cans of 50 kg



