

GLUE RANGE



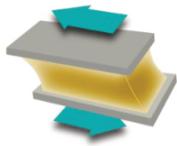
What is Gluing?

Gluing is a delicate operation which has many advantages since it makes it possible to avoid mechanical assembly by riveting, welding or screwing by allowing a continuous bond, a distribution of forces over the entire surface and a high resistance to fatigue

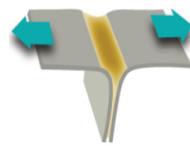
A reduction in the weight of the assembly due to the low mass of the adhesive and the reduction in the thickness of the materials.

The choice of adhesive will be based on the materials to be assembled and the expected mechanical and durability properties. A wide choice of chemistry is available and we help you find the best compromise according to your application and the means of implementation at your disposal.

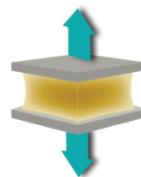
4 main types of mechanical stress acting statically or dynamically



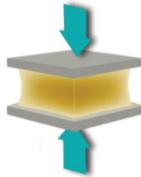
SHEAR



PEEL



TRACTION



COMPRESSION

► GLUE RANGE



SILICONE GLUE					UV GLUE				
	R15220	R14968	S802	SP7601	SP7605	9005 UV	9111 UV	9030 UV	UV20 GEL
Color	Transparent	Translucide	White/ Transparent	Black	Transparent	Transparent/ Yellow	Transparent/ Yellow	Transparent/ Yellow	Opaque White
Hardness	A20	A15	A45/ A30	A65	A20	D20	D40	D45	A80
Temperature range (°C)	-40 +180 °C	-40 +200 °C	-40 +200 °C	-40 +220 °C	-40 +180 °C	-50 +130 °C	-50 +130 °C	-50 +130 °C	-40 +125 °C
Viscosity (cP)25°C	7 000	40 000	Paste	Paste	7 000	50 000	10 000	30 000	Thixotropic
Curing	RT					UV Hg/ UV LED			
Skin Forming (23°C) 50% HR (min)	15	15	20/ 12	10	15				
Dose UVA mJ/cm²						3 000	3 000	3 000	3 500
Adhesion	Plastic/ Glass/ Metal/ Alu	Glass / Alu/ PMMA/ ABS	PET/ Glass / Alu/ PMMA/ PC	Glass / Alu/ PMMA/ PC	Plastic (PC,PVC)/ Metal				
Flame retardancy			UL94 HB	UL94 V1	UL94 HB				UL94 HB
UV Tracer	Yes	Yes	No	No	Yes	No	No	No	Yes
Thickness (mm)	3 in 24h	2 in 24h	2,5 in 24h	2 in 24h	3 in 24h	2	2	2	5
UV resistance	-	-	++		-	+	-	--	
Packaging	310ml, 20 l, 200 l drum					30ml, 310ml, 1kg, 5kg, 20kg			55ml, 340ml
One-component silicones cure at room temperature, enabling assembly and sealing of parts with widely differing coefficients of expansion.					UV bonding enables extremely fast assembly but requires one surface to be transparent to UV light				

POLYURETHANE					EPOXY	
	A220/ A280/ A290 SF-490 LT15 SF-490 LT10 SF-490 LT03	A252 SF-453 L04	A236-25 SF-436 L25	A210 SF-410 L60	A211 SF-411 L60	ST1621
Type	POLYURETHANE BI					EPOXY BI
Color	Black/White/White	Black	Beige	Grey	Green	Transparent
Hardness	D48	A70	D60	D50	A95	D80
Viscosity (cP)25°C	150 000	600 000	Paste	5 500	Paste	45 500
Pot Life min	15/10/3	8	30/90/120	45	40	6
Packaging	50ml/ 400ml/Bidon	50ml/ 400ml/Bidon	400ml/ Bidon	50ml	50ml	50ml/ 200ml/ Bidon
Application	Structural bonding, absorbs vibrations, impact resistance 30N/mm	Adhesive, paste, non sliding for irregular space, high flexibility, impact resistance 70N/mm	Assembly of parts with large clearances (<40mm)	Bonding of body work, bonding of metallic structures (racing vehicles aeronautics) bonding of insert and composite structure	Dielectric adhesive for electronic components UL94 V0	Quick curing at RT, to glue composite, metal, wood and concrete



ABchimie offers a wide range of glues, this list is not exhaustive, we will be happy to advise you on the most appropriate product for your application

Find all detailed products on our website