GELCOATS

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The specially formulated gelcoat range offers high-quality products with easy application and necessary resistance to external influences such as mechanical, thermal or chemical stresses.

GC1 050:
- Proven standard gelcoat (white) for models and negatives
- GC14 hardener with longer potlife
- Good spreading and covering properties
- Easily workable

GC1 080:
- Blue gelcoat with good workability
- With GC11 hardener applicable on wet plaster (previously treated)
- With GC14 hardener better chemical and heat resistance for ceramic and RTM moulds (polyester)

Tool for making reinforcements of bonnets made of GC1 080

Easy application of GC2 070

GELCOATS OF EASY WORKABILITY

	A	GC1 050		GC1 080		Biresin® S8
	B	GC 11	GC 14	GC 11	GC 14	Biresin® S8
Mixing ratio [g]	A	100	100	100	100	100
	B	10	10	10	10	20
Colour		white	white	blue / white	blue / white	black
Characteristics		good spreading and covering properties, easily workable		can be applied on wet plaster (previously treated), sandable and polishable	high resistance to chemicals, easy to apply	polishable to high gloss, heat resistant, good styrene resistance
Applications		master models, negatives, gauges		ceramic moulds, applicable on plaster models (previously treated)	ceramic moulds, RTM moulds (polyester)	vacuumforming moulds, master models, moulds for composite production
Processing data (approx. values)						
Potlife [min]		19	35	12	25	30
Geltime [min]		60	120	40	60	60
Demoulding time [h]		16	24	16	24	16 – 24
Physical data (approx. values)						
Density [g/cm³]		1,57	1.45	1,73	1,72	1.22
Shore hardness		D 88	D 88	D 91	D 90	D 86*
Flexural strength [MPa]		72	66	74	82	90*
HDT [°C]		–	–	–	–	136*
T_G [°C]		85*	53	100*	104*	–

* after appropriate treatment

GELCOATS OF HIGH ABRASION OR HEAT RESISTANCE

	A	GC2 070		Biresin® S12	GC2 120	Biresin® S19
	B	GC 11	GC 14	Biresin® S12	GC 20	Biresin® S19
Mixing ratio [g]	A	100	100	100	100	100
	B	10	10	8	15	12
Colour		blue	blue	grey	light green	black
Characteristics		very good abrasion resistance	good abrasion resistance	heat resistant, abrasion resistant, good solvent and styrene resistance	abrasion resistant, high heat resistance	high heat resistance
Applications		foundry patterns, match plates, diverse moulds	foundry and copying models, core boxes	vacuumforming moulds, foundry patterns, moulds for composite production	foundry patterns, moulds for low pressure SMC and RTM (polyester, EP)	vacuumforming moulds, prototype / test injection moulds, moulds for composite production
Processing data (approx. values)						
Potlife [min]		16	37	30	14	45 – 60
Geltime [min]		50	90	45	30	150 – 180
Demoulding time [h]		16	90 – 180	16 – 24	–	24
Physical data (approx. values)						
Density [g/cm³]		1,72	1.65	2.1	1.50	1.65
Shore hardness		D 89	D 89	D 92	D 90	D 89*
Flexural strength [MPa]		85	81	78	110	85*
HDT [°C]		–	–	> 100*	–	145*
T_G [°C]		92*	90*	–	118	158*

* after appropriate treatment