ottobock.

Information on the areas of application and properties of lamination resins

		Acrylic resin							Vinyl ester resin	Epoxy resin
	- proven and versatile -								user-friendly andstable –	structurally strorand thin-walled -
		 Universal resins Variable mixing ratio Short curing time Fast further processing 								 Optimal carbon are fibreglass bonding Fixed mixing ratio Fewer reinforcement layers neede Very high selfstrength Low wall thickness
		Sealing resin	Soft	resin	Rigid resin					
		Orthocryl sealing resin	Orthocryl, extra soft	Orthocryl, soft	Orthocryl lamination resin 80:20 Speed	Orthocryl lamination resin 80:20	C-Orthocryl	Orthocryl lamination resin 80:20 PRO	Orthovinyl	Orthopox
		617H21	617H51	617H17	617H19S	617H19	617H55	617H119	617H500	617H5
		Cottobock Cottobock	topus ottobock tomas ottobock Acrytharz, extrawes tomas ottobock tomas ott	Osters Os	Grang Augus Harono Harono	Structures and Struct	and the second s	dhina ottobock. and the control of	ottobock. 61 7H300-0,900 Ornborini	Ottobook Ottobo
										<u>*</u>
Processing Video										
Areas of applic	ation									
		 Sealing Gluing For making putties Not suitable for lamination 	 Socket brims Flaps Flexible socket areas 		 Small components Short curing time 	 Components with fibreglass content as well as components with low to no carbon fibre content Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed 	 Strong components High carbon fibre content Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed (increases the viscosity) 	 Strong components High carbon fibre content Can also be combined with other reinforcement materials Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed (increases the viscosity) 	 High-strength components High fibreglass content 	 For lightweight, thin-walled and high-strength components High carbon fibre content Tested resin system for C-Brace® fabrication
Reinforcement	materia	nls								
Stockinettes		_	✓	✓	✓	✓	✓	✓	~	~
Glass Fibreglas	SS	_	_	_	~	~	~	_	~	~
Carbon fibres		<u> </u>		<u> </u>	~	······································	~	~	······································	· · · · · · · · · · · · · · · · · · ·
Orthopox mesh	/flex				<u> </u>					
Characteristics										
Viscosity	•	••••	••••				••••	•0000	••000	•0000
Strength	<u>.</u>	•••		000					••••	••••
	>									
Stiffness Forming	• • • • • • • • • • • • • • • • • • •	•000		000			••••			••••
properties	555		All resins are duroplastics (not thermoplastics). The components lose their profile of properties when deformed, meaning their mechanical effe						-	
Mixing ratio		Resin : Hardener : Colour paste 100 : 1 : 3	Resin : Hardener : Colour paste 100 : 1–2 : 3		Resin : Hardener : Colour paste 100 : 1-3 : 3				Resin : Hardener : Colour paste 100 : 1–2 : 3	Resin : Hardener : Co paste 100 : 26 : 3
Pot life	Ø	Approx. 5 min.	Approx. 25 min.	Approx. 25 min.	Approx. 15 min.	Approx. 25 min.	Approx. 25 min.	Approx. 35 min.	Approx. 35 min.	Approx. 60 min
Curing time (including pot life)	<i>™</i> o	Approx. 10 min.	Approx. 45 min.	Approx. 45 min.	Approx. 25 min.	Approx. 45 min.	Approx. 45 min.	Approx. 55 min.	Approx. 75 min.	Approx. 10 h
Annealing	555			_					Approx. 3 h at 80 °C	Approx. 1 h at 60 and approx. 10 h 80 °C
Legend:		 = very high = high = medium = low 	 •••• = very soft ••• = soft ••• = hard ••• = very hard 	 •••• = very low ••• = low ••• = high ••• = very high 						