## ottobock.

## Information on the areas of application and properties of lamination resins

		Acrylic resin							Vinyl ester resin	Epoxy resin
		- proven and versatile -								- structurally stropand thin-walled -
		<ul> <li>Universal resins</li> <li>Variable mixing ratio</li> <li>Short curing time</li> <li>Fast further processing</li> </ul>								<ul> <li>Optimal carbon are fibreglass bonding</li> <li>Fixed mixing ratio</li> <li>Fewer reinforcement layers needed</li> <li>Very high selfstrength</li> <li>Low wall thickness</li> </ul>
		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
		Saturn Ottobock  Saves S	Status ottobock  Status ottobock  Status ottobock  Status ottobock  Status ottobock  Status ottobock  Acrytharz, extrawed  Acrytharz, extrawed  Status of the status of th	Garans  Galacias  Galacias  Pale Cado  Pale	Carvos  Carvos	Catason attobook  States attobook  States attobook  States attobook  States attobook  Corthocryi  Laminierhatz 80:20  Di Laminierhatz 80:20  Ed Laminierhatz 80:	SESSAN OCTOBOCK  SAMULAN  SAMULAN  SAMULAN  SAMULAN  SAMULAN  CONTROCTO  CONTROCTO  SAMULAN  SAMULAN	Control of the contro	ortobock. 617H500xi0,900 Ortboring	Ottobos  OTi-1  The second sec
										<b>E</b> !
Areas of applic	cation									
		<ul> <li>Sealing</li> <li>Gluing</li> <li>For making putties</li> <li>Not suitable for lamination</li> </ul>	<ul> <li>Socket brims</li> <li>Flaps</li> <li>Flexible socket areas</li> </ul>		<ul> <li>Small components</li> <li>Short curing time</li> </ul>	<ul> <li>Components with fibreglass content as well as components with low to no carbon fibre content</li> <li>Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed</li> </ul>	<ul> <li>Strong components</li> <li>High carbon fibre content</li> <li>Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed (increases the viscosity)</li> </ul>	<ul> <li>Strong components</li> <li>High carbon fibre content</li> <li>Can also be combined with other reinforcement materials</li> <li>Curing time can be reduced by adding Orthocryl lamination resin 80:20 Speed (increases the viscosity)</li> </ul>	<ul> <li>High-strength components</li> <li>High fibreglass content</li> </ul>	<ul> <li>For lightweight, thin-walled and high-strength components</li> <li>High carbon fibre content</li> <li>Tested resin system for C-Brace® fabrication</li> </ul>
Reinforcement	t materia	als								
Stockinettes		_	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>
Glass Fibreglass		_	_	_	<b>✓</b>	<b>~</b>	<b>✓</b>	_	<b>~</b>	~
Carbon fibres		_		<u>—</u>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Orthopox mesh/flex		_	_	_	_	_	_	_	_	~
Characteristics	s and pro	ocessing								
Viscosity	•	•••00	••••	••••	•••00	•••00	••000	•0000	••000	•0000
Strength	<b>T</b>	•••0		••••				••••	••••	
Stiffness	<b>&gt;</b>	•000	•000		••00		••00			••••
Forming properties	<b>Y Y</b>		All resins are	duroplastics (not thermop	lastics). The components	lose their profile of proper	ties when deformed, mear	ning their mechanical effec	t is destroyed.	
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	0	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 ife)	<i>P</i> **0	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		<del></del>	<del></del>					Approx. 3 h at 80 °C	Approx. 1 h at 60 and approx. 10 h 80 °C
.egend:		<ul> <li>e very high</li> <li>e very high</li> <li>e high</li> <li>e medium</li> <li>e low</li> <li>e very low</li> </ul>	<ul> <li>•••• = very soft</li> <li>••• = soft</li> <li>••• = hard</li> <li>••• = very hard</li> </ul>	<ul> <li>•••• = very low</li> <li>••• = low</li> <li>••• = high</li> <li>••• = very high</li> </ul>						