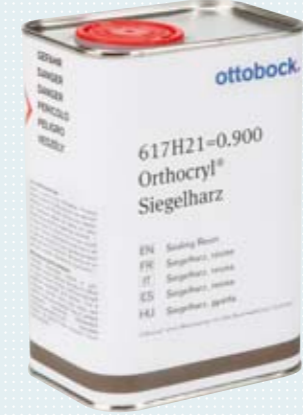
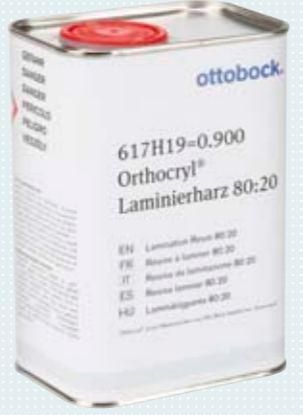

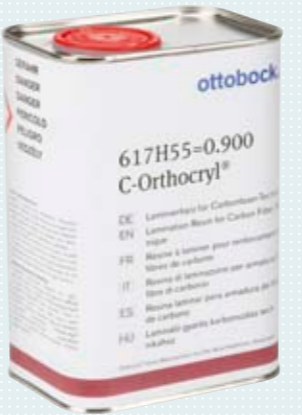




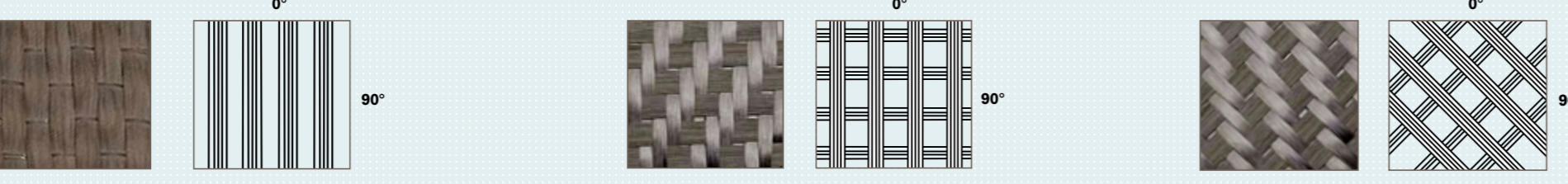
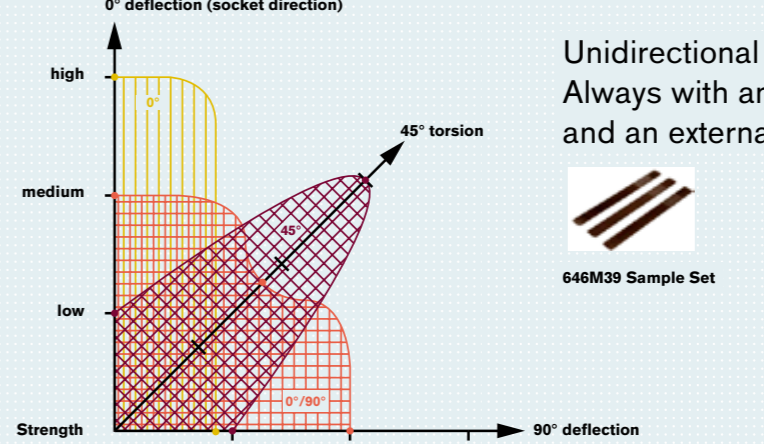


## Information on areas of application and recommendations for lamination resins

### Duroplastics

	Acrylic resins							Epoxy resin
	Orthocryl Sealing Resin	Orthocryl Lamination Resin 80:20	Orthocryl Lamination Resin 80:20 PRO	C-Orthocryl	C-Orthocryl Sanitized	Orthocryl, soft	Orthocryl, extra soft	Araldit Lamination Resin
Article number	617H21	617H19	617H119	617H55	617H255	617H17	617H51	617H4
								
Areas of application	Suitable for sealing and reinforcing	Components with fibreglass content, as well as components with low to no carbon fibre content	Components with high carbon fibre content; for densely woven reinforcements	Components with high carbon fibre content	Components with high carbon fibre content	Components without fibreglass or carbon fibre content	Components without fibreglass or carbon fibre content	Components with high carbon fibre content, for solid laminate
Characteristics	<p>Viscosity: ●●●●○, ●●●●○, ●○○○○, ●●○○○, ●●○○○, ●●○○○, ●●○○○, ●●○○○</p> <p>Strength: ●●●●, ●●●●, ●●●●, ●●●●, ●●●●, ●●●●, ●●●●, ●●●●</p> <p>Flexibility: —, —, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○</p> <p>Forming properties: All resins are duroplastics (not thermoplastics), the components lose their profile of properties through deformation, meaning their mechanical effect is destroyed.</p> <p>Complexity in the model: ●●●○, ●●●○, ●●●○, ●●●○, ●●●○, ●●●○, ●●●○, ●●●○</p> <p>Antibacterial effectiveness: —, —, —, —, ✓, —, —, —</p> <p>Setting time: approx. 5 min., approx. 30 min., approx. 40 min., approx. 30 min., approx. 30 min., approx. 30 min., approx. 30 min., 10 hrs (hardener) or 5 hrs (quick hardener)</p>							
Reinforcement material	<p>Fibreglass: —, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○</p> <p>Stockinette: —, ●●●●, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○</p> <p>Carbon fibre: —, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○, ●○○○</p>							
Useful information	<p><b>Carbon laminate with corresponding reinforcement</b></p>  <ul style="list-style-type: none"> <li>High bending strength in the fibre direction (0°)</li> <li>Medium torsional strength</li> <li>Unidirectional (0°): Always with an internal and an external layer!</li> <li>Medium bending strength in 0°</li> <li>Medium bending strength in 90°</li> <li>Medium torsional strength</li> <li>Low bending strength in 90°</li> <li>High torsional strength</li> </ul>				<p><b>Pure carbon laminate without additional reinforcement</b></p>  <p>Unidirectional (0°): Always with an internal and an external layer!</p>			
Accessories	PVA sheeting (616F4=*) Pharma Talcum (639A1=1) or Microbalon, white (617Z8=1)	PVA sheeting (616F4=*)	PVA sheeting (616F4=*)	PVA sheeting (616F4=*)	PVA sheeting (616F4=*)	PVA sheeting (616F4=*)	PVA sheeting (616F4=*)	PVA sheeting, clear (616F1=*)
	<p><b>Resin colour pastes:</b> light skin colour (617Z2=*), tan skin colour (617Z3); white (617Z4); yellow (617Z5); red (617Z6); blue (617Z7); black (617Z9); green (617Z58=3)</p> <p>Hardener 617P37=*</p>							
Processing	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*	749Y8=40 749Y7=B*x* 749Y26=*
Grinding tools (recommendation)	—	—	—	—	—	749Z12=*	749Z12=*	—
Adhesives	<ul style="list-style-type: none"> <li>Otto Bock Contact Adhesive [636N9]</li> <li>UHU Plus, final strength 300 (dual-component system) [636W23]</li> <li>Orthocryl Sealing Resin Compact Adhesive [636K18]</li> <li>Two-Component High Performance Adhesive [636W18]</li> <li>Cyanoacrylate Quick-Drying Adhesive as dosage pen [636K36]</li> <li>UHU Plus, final strength 300 (dual-component system)</li> <li>Two-Component High Performance Adhesive [636W18]</li> </ul>							
Mixing ratio	Resin : Hardener : Colour paste 100 : 1 : 3	Resin : Hardener : Colour paste 100 : 2-3 : 3				Resin : Hardener : Colour paste 100 : 1-2 : 3		Resin : Hardener : Colour paste 100 : 20 : 3
Accessories	<p>Measuring Cup (642B2=*)</p> <p>Wooden Spatula (699Y3)</p>							
Net contents	0.9 kg: 617H21=0.900 4.6 kg: 617H21=4.600 25 kg: 617H21=25	0.9 kg: 617H19=0.900 4.6 kg: 617H19=4.600 25 kg: 617H19=25	0.9 kg: 617H119=0.900 4.6 kg: 617H119=4.600 25 kg: 617H119=25	0.9 kg: 617H55=0.900 4.6 kg: 617H55=4.600 25 kg: 617H55=25	0.9 kg: 617H255=0.900 4.6 kg: 617H255=4.600 25 kg: 617H255=25	0.9 kg: 617H17=0.900 4.6 kg: 617H17=4.600 25 kg: 617H17=25	0.9 kg: 617H51=0.900 4.6 kg: 617H51=4.600 25 kg: 617H51=25	1 kg: 617H4=1 5 kg: 617H4=5 25 kg: 617H4=25

#### Key:

●○○○○ = very low	●○○○ = very soft	●○○○ = very stiff	●○○○ = very low	○○○○ = Combination not recommended	✓ = Antibacterial effectiveness
●●○○○ = low	●●○○ = soft	●●○○ = stiff	●●○○ = low	●○○○ = Low fibre content combination	
●●●○○ = medium	●●●○ = stiff	●●●○ = flexible	●●●○ = high	●●○○ = Medium fibre content combination	
●●●●○ = high	●●●● = very stiff	●●●● = very flexible	●●●● = very high	●●○○ = High fibre content combination	
●●●●● = very high				●●○○ = Very high fibre content combination	



#### Further information

Further information can be found in the product information 646D453=EN and on our website (scan the QR code with your smartphone).

