

Information* on the Characteristics and Material Combinations of Adhesives, Putties, Varnishes and Thinners

 * This information only applies to the adhesives, putties, varnishes and thinners of Otto Bock HealthCare GmbH in Duderstadt, Germany. ** Depending on relative humidity and room temperature 		General Characteristics							Special Characteristics/ Areas of Application	Possible Material Combinations																				
	Product description	Chemical basis	Area of application °C/°F	Pot life (2K products, depending on mixing ratio)	Drying time **	Handling strength **	Final strength **	Colour of the glue joint	Bonding process		Polyurethane	Polyethylene	Polypropylene	PPT	EVA GRP	Rubber	Textiles	Felt	Wood	Laminate	Leather	Cork	PU foams rigid	PU foams soft	PE foams	Metal	Hard PVC	Soft PVC	Neoprene	Product description
Adhesi	Parchment Cold	Polyvinyl acetate						Trans-	Wet	also for low processing temperatures,																				•
41	Adhesive 636W9 Universal Adhesive	Cellulose					approx. 8 h	parent Trans-	Contact	average setting time water and perspiration-resistant,	· • • • • • • • • • • • • • • • • • • •					·····	·····	•	•		•									
	636W1						under pressure	parent	and wet	contact adhesion for closed-pore materials, suitable thinner 634A1							•	•	•		•	•								
	Contact Adhesive 636N9	Methyl acetate	up to approx. +100 °C/ +212 °F		15–20 min.			Yellowish	Contact	bonding flexible materials including plastics and metals, good resistance to ageing, suitable thinner 634A6					•	•	•	•	•	•	•	•		•	•	•	•			
	Special Adhesive for Bandages 636N10	Homopolymer polyvinyl acetate dispersion, approx. 63% in water			30-60 min.		approx. 2 days	Transparent	Contact and wet	very flexible adhesive film, limited suitability for soft PVC or sole bonding, contact adhesion for closed-pore materials		•	•	•		•	•	•	•		•	•	•	•	•	•				
5	Plastic Adhesive 636W17	Polyurethane			10-20 min.			Transparent	Contact and wet	heat activation possible even after several days, suitable for bonding fatty leather and to solidify foam cosmetic covers contact adhesion for closed-pore materials, suitable thinner 634A20							•				•	•	•	•			•	•		3
	PU (Polyurethane) Adhesive 636W25	Polyurethane synthetic solution	from +80°C/ +176°F to +120°C/	approx. 8 h	approx. 10 min.		approx. 24 h		Contact	for high-strength and flexible bonding, heat-resistant to 120 °C/248 °F in combination with 636W26 Cross-Linking Agent, heat activation possible (+80 °C/+176 °F), suitable thinner 634A23	•					•)						•	•				•		
	Contact Adhesive 636W45	Polychloroprene	+248 °F from -30 °C/ -86 °F to +120 °C/		10–15 min.		approx. 48 h	Yellowish transparent	Contact	for flexible bonding, suitable thinner 634A59						•	•		•		•	•	•	•		•	•		•	
	Neoprene Adhesive 636W65	Polychloroprene	+248°F		7–45 min.		1–2 h	Brown	Contact	especially for neoprene, suitable thinner 634A67					•	•	•				• •								•	
	CP Contact Adhesive 636W71	Polychloroprene, collophonium		with 5–10% hardener up to 8 h	10–60 min.		2-3 days		Contact	especially for orthopaedics technology, bonds are more flexible than with 636W72 CR Contact Adhesive, toluol-free, also suitable as a dual-component system to increase heat-resistance,	•	•	•	•		•					•			•	•	•			•	
	CR Contact Adhesive 636W72	Polychloroprene		with 5–10% hardener	15 – 120 min.		3-5 days	Transparent	Contact	especially for orthopaedic footwear technology, toluol-free, also suitable as a dual-component system to increase heat-resistance,	•			•		•					•			•	•	•			•	
9	Orthocryl Sealing Resin Compact	Solution of an acrylic polymer in		depends on the mixing ratio			depends on the	Transparent	Wet	used with 617P14 Hardener Paste or 617P37 Powder									•											9
	Adhesive 636K18 UHU Hard (dual- component system)	methacrylic esters Cellulose nitrate	up to approx.	mixing ratio			approx.	Transparent	Wet	fast-drying, soluble with 634A3 Acetone	· • • • • • • • • • • • • • • • • • • •			<u></u>																
C. Sans	Rubber Adhesive	Polychloroprene	+100°C/ +212°F from -30°C/ -86°F to		5–15 min.			Beige	Contact	for flexible and heat-resistant bonding, can be applied with a brush or spatula									•		•				•	•	•			
	UHU Plus, final strength 300 (dual-	Bisphenol-A epoxy resin (A), polyaminoamide (B)	+90 °C/ +194 °F from -40 °C/ -104 °F to	approx. 90 min.		approx. 6 h	approx. 5 days	Opaque/ honey- coloured	Wet	the higher the setting temperature (up to approximately 180 °C/380 °F), the higher the strength of the bond;						•			•	•						•	•			
I HA	Two Component High- Performance Adhesive 636M2	Epoxy resin and pigments (A), polyaminoamide (B)	+80 °C/ +176 °F	50-80 min.		approx. 12 h	approx. 7 days		Wet	also hardens when not exposed to air for high-strength bonding					•	•			•	•			•			•	•			JAN.
*	Special Adhesive 636W18	Epoxy resin and pigments (A), polyaminoamide (B)		50-70 min.			approx. 10 h		Wet	especially for splint systems, highest strength when hardening between 40 – 120 °C/104 – 248 °F, used with 636W19 Hardener Paste									•							•				(FEEE)
1500	Cyamet Rapid Adhesive (Superglue) 636K11	Ethyl	from -30°C/ -22°F to +80°C/ +176°F			5-70 sec.	approx. 24 h	Transparent	Wet	setting is accelerated by humidity, suitable for almost all material combinations, high mechanical strength, patented twist-off dosage cap		•	•			•					•	•				•				+
Ė	Cyanacrylate Rapid Adhesive as Dosage Pen 636K36	Ethyl	from -30 °C to -86 °F to +80 °C/ +176 °F			3-50 sec.		Transparent	Wet	dosage pen with twist-off cap, precise gluing with accurate dosage, universal product of average viscosity, high tensile strength, quick-setting standard grade for various applications including ceramics		•	•			•	•	•	•	•	•	•		•		•				į
10	Spray Adhesive (removable) 636K40	Synthetic elastomers	from -20°C/-4°F to +50°C/ +122°F		up to 5 minutes			Transparent	Wet	for joints that can be disassembled and repositioned, UV-resistant, fine and evenly distributed adhesive application, precise and clean during use							•	•	•			•	•	•		•				10
13	Spray Adhesive (permanent) 636K41	Synthetic elastomers	from -30°C/ -22°F to +60°C/ +140°F		up to 10 seconds			Beige	Contact	for permanent bonding, universal, long gluing time, does not penetrate porous materials nor sag, fine and evenly distributed adhesive application					•		•	•	•			•	•	•		•	•			
Putties																														
	Orthocryl Putty 636K7	Polyester resin solution in methyl methacrylate	from +80 °C/ +176 °F to +130 °C/ +226 °F	5–13 min.				Grey		for securing and filling various materials, used with 617P14 Hardener Paste	•	•	•						•	•				•		•	•			
9	Akemi Fast-Curing Putty 636K9	Unsaturated polyester resins dissolved in styrene	up to approx. +100°C/ +212°F	2–6 min.			15–30 min.			fast-curing, good adhesion and elasticity, for securing and filling various materials, used with 617P14 Hardener Paste	•	•	•						•	•			•			•	•			9
	Light Putty 636K17	Unsaturated polyester resins with special light fillers dissolved in styrene		3–7 min.			20-40 min.			fast-curing, very low density, good adhesion, good grinding characteristics for securing and filling various materials, can be coloured with Ottobock colour pastes,	•	•	•		•				•	•						•	•			
	Plastic Wood 636K3	Acetone, nitrocellulose, camphor, titanium dioxide	from -10 °C/ -50 °F to +80 °C/ +176 °F			5–15 min.				for filling holes, cracks and irregularities in wood, can be sanded after approximately 15 min., desired viscosity can be restored using 634A1 Thinner									•											
Varnisl																														
	Special Varnish, transparent 635L2 Socket Interior Varnish,	Cellulose Acrylic						Transparent Transparent		socket interior and exterior varnish, varnishing pergamented prostheses and other wood and metal components, suitable thinner 635L2 interior socket varnish,																				
	transparent 635L8 Orthocryl Varnish, colourless	Synthetic binding agent and solvent								physiologically neutral and suitable for sensitive skin for the isolation of wet plaster models, and for varnishing sanded laminate surfaces	In	n view of	the num	erous pos	sible app	lication	s of adh	esives,	putties,	varnisł	nes and	thinners	s, we car	n only p	orovide a	general i	informati	ion in thi	s	
	Orthocryl Spray Varnish, clear	Toluol-acetone-xylol solvent mixture						Transparent		for smoothing and repairing sanded laminate, CFC-free spray can	ov th	verview. ne mater apours a	The suit ials bein and gase	ability of the good bonded s generated s. Ottobo	ese prod and the s d during	ucts for ubsequ the pro	r your spuent type	ecific posteriors of strategy and stop	ourpose ain on the orage of	– also i ne glue adhesi	n regard joint – n ves, wh	ds to you needs to nich may	ur proce be verifi be haza	essing to lied by y ardous t	echnique our own	e, the ch practic , must b	haracteri cal tests. be extrac	istics of		
	Spray Varnish, skin-coloured 635L13	Pigment binding agent spray varnish						Skin colour		for coating sanded laminates , CFC-free spray can	aı th P	nd susp ne Ottob lease als	ended pa ock lami	ns. Ottobout articles are nation wor we the note are cabinet	extracte kstations s on pro	d with t can be cessing	he help found in and sto	of a fan n the Pla oring adl	and the anning a hesives	suspe and Equ which	nded pa uipping are foun	articles a Catalog	are caug ue (6461 e contain	ht with K10=G	an integ B).	rated fill	lter. More	e about		
<u>**</u>	Spray Varnish, dark brown 635L16	Pigment binding agent spray varnish						Dark brown		for coating sanded laminates , CFC-free spray can	S d:	afety da ata shee	ta sheets	are availa or Materi	ble for m al Safety	aterials Data S	that rec	juire lab ISDS) c	elling a	ccordin mporta	g to the	Ordina y instruc	nce on H	r handli	ng hazar	stances rdous su	s. These ubstance	EU safe es. Upor	у	
	Dipping Varnish 635L15	Polyurethane						Dark brown		for colouring Pedilan casting forms , e.g. feet	request, we can provide you with these data sheets in compiled form on CD-ROM (reference number 646C16). Occupational safety and environmental protection factors according to the current state of knowledge have been taken into consideration. The corresponding protective equipment for the products identified with hazardous substance symbols (risk and safety phrases) can be found in the Materials Catalogue (646K1=GB) in the Protective Equipment section.																			
Cleane	ers/Thinners																		12.											
	Acetone 634A3	Acetone, dimethylketone						Transparent		very volatile, with extremely good solvent characteristics for nitrocellulose, polyester, polystyrene, PVC copolymers, alkyd resins, fats, oils and waxes,																				
	Isopropyl Alcohol 634A58	Dimethylcarbinol, 2-hydroxypropan, 2-propanol						Transparent		good degreasing characteristics for cleaning sensitive plastics such as PVC, PS, ABS, acrylic, PC																				