

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		Gene	ral Char	acteristi	cs				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	Rubber	Textiles	Fe	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,																				-
	Adhesive 636W9 Universal Adhesive	Cellulose					approx. 8 h	parent Trans-	Contact	average setting time water and perspiration-resistant,								•	•		•								······	<u> </u>
	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	•	•	•	•		•	•	•	•		•	•	•	•	•	•				
	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							•				•	•	•	•		•	•	•		
	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	<u></u>					•	•		•		•	•	•	•		•	•		•	
	Neoprene Adhesive 636W65	Polychloroprene	+120°C/ +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	10–60 min.		2-3 days		Contact	especially for orthopaedics technology, bonds are more flexible than with 636W72 CR Contact Adhesive, toluol-free,	•	•	•	•							•			•	•	•			•	
	CR Contact Adhesive 636W72	Polychloroprene		up to 8 h with 5-10% hardener	15 – 120 min.		3-5 days	Transparent	Contact	also suitable as a dual-component system to increase heat-resistance, suitable universal thinner 634A71 especially for orthopaedic footwear technology, toluol-free,	•			•		•					•			•	•	•		······································	•	
9	Orthocryl Sealing Resin Compact	Solution of an acrylic polymer in		depends on the mixing ratio			depends on the	Transparent	Wet	also suitable as a dual-component system to increase heat-resistance, suitable universal thinner 634A71 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>															············	
To the same	636W22 Rubber Adhesive 636W34	Polychloroprene	+100°C/ +212°F from -30°C/		5–15 min.			Beige	Contact	for flexible and heat-resistant bonding, can be applied with a brush or spatula					•															The state of the s
	UHU Plus, final strength 300 (dual-	Bisphenol-A epoxy resin (A),	-86 °F to +90 °C/ +194 °F from -40 °C/	approx. 90 min.		approx. 6 h	approx. 5 days	Opaque/ honey-	Wet	the higher the setting temperature (up to approximately 180 °C/380 °F),																				
	component system) 636W23 Two Component High- Performance Adhesive	polyaminoamide (B) Epoxy resin and pigments (A),	-104°F to +80°C/ +176°F	50-80 min.		approx. 12 h	approx. 7 days	coloured	Wet	the higher the strength of the bond; also hardens when not exposed to air for high-strength bonding																				
	636M2 Special Adhesive 636W18	polyaminoamide (B) 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																•				
<u></u>	Cyamet Rapid Adhesive (Superglue) 636K11	Ethyl	from -30°C/ -22°F to +80°C/			5–70 sec.	approx. 24 h	Transparent	Wet	setting is accelerated by humidity, suitable for almost all material combinations, high mechanical strength,		•	•			•)				•	•				•				<u></u>
÷	Cyanacrylate Rapid Adhesive as Dosage Pen	Ethyl	+176 °F +176 °F from -30 °C to -86 °F to +80 °C/			3–50 sec.		Transparent	Wet	dosage pen with twist-off cap, precise gluing with accurate dosage, universal product of average viscosity,	<u></u>	•	•			•	•	•	•	•	•	•				•				
	Spray Adhesive (removable) 636K40	Synthetic elastomers	+176 °F from -20 °C/-4 °F to +50 °C/		up to 5 minutes			Transparent	Wet	high tensile strength, quick-setting standard grade for various applications including ceramics for joints that can be disassembled and repositioned, UV-resistant, fine and evenly distributed adhesive application,				<u></u>			•	•	•			•	•	•		•				
	Spray Adhesive (permanent) 636K41	Synthetic elastomers	+122°F from -30°C/ -22°F to +60°C/		up to 10 seconds			Beige	Contact	for permanent bonding, universal, long gluing time, does not penetrate porous materials nor sag,					•		•	•	•			•	•	•		•	•			10
Putties			+140°F							fine and evenly distributed adhesive application																				
	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	•	•	•						•	•				•		•	•			
	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, used with 617P14 Hardener Paste	•	•	•		•				•	•						•	•			
	Plastic Wood 636K3	Acetone, nitrocellulose, camphor, titanium dioxide	from -10 °C/ -50 °F to +80 °C/			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	1es		+176 °F																											
8	Special Varnish, transparent 635L2	Cellulose						Transparent		socket interior and exterior varnish, varnishing pergamented prostheses and other wood and metal components, suitable thinner 635L2																				
	Socket Interior Varnish, transparent 635L8 Orthocryl	Acrylic Synthetic binding agent						Transparent		interior socket varnish, physiologically neutral and suitable for sensitive skin for the isolation of wet plaster models,	In view of the numerous possible applications of adhesives, putties, varnishes and thinners, we can only provide general information in this overview. The suitability of these products for your specific purpose – also in regards to your processing technique, the characteristics of the materials being bonded and the subsequent types of strain on the glue joint – needs to be verified by your own practical tests.																			
	Varnish, colourless 635L12	and solvent								and for varnishing sanded laminate surfaces																				
	Orthocryl Spray Varnish, clear 635L14 Spray Varnish,	Toluol-acetone-xylol solvent mixture Pigment						Transparent Skin colour		for smoothing and repairing sanded laminate, CFC-free spray can for coating sanded laminates,	ir a	ig suitab nd susp	le syster ended pa	s generate ns. Ottobo articles are nation wor	ck lamina extracte	ation wo	orkstatio he help	ns have of a fan	proved and the	suitabl suspe	le for ext nded pa	tracting articles a	these h are caug	azardou ght with	us substa an integ	ances. (Gases, v	apours		
<u></u>	skin-coloured 635L13	binding agent spray varnish								CFC-free spray can		ffer suita	ıble secı	ve the note	s in orde	r to ens	sure haza	ardous s	substanc	ces are	stored	properly	y.							
	Spray Varnish, dark brown 635L16	Pigment binding agent spray varnish						Dark brown		for coating sanded laminates , CFC-free spray can	d re	ata shee equest, v	ts (SBD we can p	are availa or Materi rovide you	al Safety with the	Data S se data	heets (M sheets i	ISDS) c n compi	ontain in iled form	mporta n on CI	nt safety D-ROM	y instruc (referer	ctions fo nce num	r handli ber 646	ing hazaı 6C16).	rdous s	substance	es. Upoi	1	
	Dipping Varnish 635L15	Polyurethane						Dark brown		for colouring Pedilan casting forms, e.g. feet	Т	he corre	spondin	ety and env g protective rials Catalo	e equipm	ent for	the prod	ducts ide	entified v	with ha	zardous	s substa								
Cleane	rs/Thinners	Acatona dimentina						Trans		very volatile																				
	Acetone 634A3	Acetone, dimethylketone						Transparent		very volatile, with extremely good solvent characteristics for nitrocellulose, polyester, polystyrene, PVC copolymers, alkyd resins, fats, oils and waxes, good degreesing characteristics																				
	Isopropyl Alcohol 634A58	Dimethylcarbinol, 2-hydroxypropan, 2-propanol						Transparent		good degreasing characteristics for cleaning sensitive plastics such as PVC, PS, ABS, acrylic, PC																				