

RECKLI Resins for Mould and Pattern Making



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RECKLI

DESIGN YOUR CONCRETE

BALUSTER, EMBLEMS, ORNAMENTS: WHEN IT COMES TO THE DECORATIVE PART OF THE PROJECT, COSTS WILL ALWAYS INCREASE. RECKLI PROVIDES ELASTOMERS WHICH ALLOW COST-EFFECTIVE CASTINGS BUT WILL STILL ENSURE THE RESULT'S ACCURACY.

THE MOULDING PROCESS IS MOSTLY USED FOR HISTORIC RESTORATIONS OF AGED BUILDINGS. THE EXPENSES FOR STONEMASONRIES OR STUCCO WORK WOULD SIMPLY BE TOO EXPENSIVE WHEREAS ELASTIC MOULDS ARE ABLE TO RECREATE ORNAMENTS, EMBLEMS, COLUMNS OR BALUSTERS IN DETAIL. EVEN MODERN AGE RELIEFS AND STYLISTIC RE-CREATIONS CAN EASILY BE MANUFACTURED. THE IMPRESSIONS ARE SO DETAILED THAT EVEN STAGE DESIGNERS, ARTISANS AND STUCCO PLASTERERS MAKE USE OF POLYURETHANE, SILICON AND EPOXIDE BY RECKLI.

BY USING THE RECKLI ELASTOMERS EVERYTHING IS POSSIBLE, FROM MOULDING A BELL TO SHAPING AN ELEPHANT.

Product	Application Characteristics	Mixing ratio by weight	Specific gravity g/cm ³	Pot life min (21 °C / 200 g)	Earliest stripping h (21 °C)	Viscosity mPa.s	Hardness Shore A	Linear shrinkage %	Tear resistance N/mm	Elongation at break %	Heat resistance °C	Colour
POLYURETHANE ELASTOMERS · POURABLE												
RECKLI PUR Elastomer A40	pourable elastic two-component compound for making formliners, moulds and mould parts, block outs or recesses, nearly shrinkage-free curing, isometric reproduction of finest pattern details, long lasting functional life, highly elastic	8:1	1.40	15-20	>24	Base 3000	40	nearly free of shrinkage	6-7	300	60	grey
RECKLI PUR Elastomer A55 exists also as type K: special type for closed gypsum moulds in ceramics industry	similar to RECKLI PUR Elastomer A40, but Shore A 55, Standard Type	8:1	1.40	15-20	>24	Base 4000	55	nearly free of shrinkage	8-9	280	60	grey
RECKLI PUR-Elastomer A70	similar to RECKLI PUR Elastomer A 40, but Shore A 70	8:1	1.40	20-30	>24	Base 6000	70	nearly free of shrinkage	22-24	600	60	grey
RECKLI PUR Elastomer SR30	very elastic two-component compound for highly-complicated moulds, low specific gravity	8:1	1.10	15-20	>24	Base 3500	30	nearly free of shrinkage	8-9	850	60	grey
RECKLI PUR Elastomer SR50	exceptionally tear-resistant elastic two-component compound, Shore A 50	8:1	1.28	15-20	>24	Base 4500	52	nearly free of shrinkage	18-20	900	60	grey
POLYURETHANE ELASTOMERS · PUTTY RESINS												
RECKLI PUR Elastomer thix	two-component compound, thixotropic, paste-like, especially suitable for moulding on vertical surfaces	8:1	1.40	8-10	3-5	pasty	55	nearly free of shrinkage	8-9	280	60	grey
RECKLI PUR Elastomer thix black	similar to RECKLI PUR Elastomer Thix but stiffer and shorter potlife	8:1	1.40	6-8	3-5	pasty	55	nearly free of shrinkage	8-9	250	60	black
RECKLI Elasto Filler	two-component putty, elastic, suitable for repairing moulds, mould-parts or formliners made of RECKLI PUR Elastomers	8:1	1.40	10-15	2-3	pasty	55	nearly free of shrinkage	8-9	280	60	grey
POLYURETHANE ELASTOMERS · TOUGH ELASTIC												
RECK-o-lan 85 Type N	two-component pourable resin for making high wear resistant moulds and mould parts in machinery, tool making, mould and model making, especially suitable for making block-outs or recesses in concrete industry	2:1	1.12	5	24	Base 2000	86	0.1-0.25	32	400	60	grey
RECK-o-lan 95 Type N	similar to RECK-o-lan 85 Type N, but Shore A 95	2:1	1.12	4	24	Base 1800	94	0.1-0.25	47	300	60	red-brown
RECKLI PUR Compound A75	two-component compound for making high wear resistant moulds and mould parts in machinery, tool making, mould and model making, especially suitable for making block-outs or recesses in concrete industry	3:1	1.06	7	16	Base 2000	75	0.1-0.2	28	470	60	yellow-brown
RECKLI PUR Compound A85	similar to RECKLI PUR Compound A75, but Shore A 85	3:1	1.06	2.5-3	3	Base 2700	85	0.1-0.2	38	500	60	yellow-brown

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SILICONE ELASTOMERS · CURING BY CONDENSATION, POURABLE												
RECKLI SI Compound 6.25	two-component silicone rubber for moulding of voluminous models with less complicated undercuts, shortened demoulding times	10:1	1.16	40-60	5	12000	25	0.5-0.8	6	280	160	white
RECKLI SI Compound 10.15	very creepable two-component silicone rubber with high tear resistance, specially suitable for coat castings of gypsum mouldings	10:1	1.10	60-90	24	12000	15	0.5-0.8	15	420	160	white
RECKLI SI Compound 20	high tear-resistant universal type, suitable for nearly all moulding works and complicated replicas	10:1	1.24	60-90	24	18000	20	0.5-0.8	19	400	160	beige
RECKLI SI Compound 20 translucent	similar to RECKLI SI Compound 20 but translucent	10:1	1.10	60-90	24	20000	20	0.5-0.8	19	500	200	translucent
RECKLI Eco Sil 25	two-component silicone rubber, moulding material only for 1 use, application in shoe industry and bronze foundries, still possible to fill	10:1	1.30	15-25	2	10000	23	0.5-0.8	1.5	200	150	beige

SILICONE ELASTOMERS · CURING BY CONDENSATION, PASTY												
RECKLI SI Mould Paste HR-N	two-component silicone rubber paste for vertical or overhead moulding works, enclosed thickener for an individual consistency of the paste, high elongation at break and short potlife	10:1	1.10	15-25	12	pasty	15	0.5-0.8	15	420	160	white

SILICONE ELASTOMERS · CURING BY ADDITION, POURABLE												
RECKLI SI Compound 21AV	two-component silicone rubber, nearly shrinkage-free curing, high tear resistance, for true to measure mouldings and longlasting mouldstorage	10:1	1.30	90-120	24	6000	21	0.1-0.2	13	300	160	white
RECKLI SI Compound 26AV	similar to RECKLI SI Compound 21 AV but Shore A 26 and still higher tear resistance and tensile strength	10:1	1.10	60-90	24	14000	26	0.1-0.2	20	430	160	translucent
RECKLI SI Compound 31AV	similar to RECKLI SI-Gießmasse 21AV, but Shore A 31	10:1	1.35	90-120	24	10000	31	0.1-0.2	12	200	160	white

Product	Application Characteristics	Mixing ratio by weight	Specific gravity g/cm ³	Pot life min (21 °C / 200 g)	Earliest loading h	Viscosity mPa.s	Hardness given by the indentation test N/mm ² (14 d)	Dimensional stability under heat °C (acc. to Martens)	Temperature resistance 7 days, 100 °C (recirculated air)
RECKLI Construction Resin EP	universally suitable colourless two-component resin for nearly all applications in the building or concrete industry e.g. for coatings, as adhesive, bond course or binder for resin-based concrete, mortar or screed and compounds	2:1	1.10	40-50	24-48	1000-1200	70-75	40	resistant
RECKLI Construction Resin EP "rapid"	similar to RECKLI Construction Resin EP, but shorter potlife and quicker curing time, especially suitable in cold seasons	2:1	1.10	15-20	24-48	1000-1200	70-75	40	resistant
RECKLI Flooring Resin EP	colourless two component resin of low viscosity, especially suitable as binder for resin-based mortars and screed stight to liquids and as a good penetrating primer for cement-based surfaces	3:1	1.10	40-50	24-48	350	50-55	40	resistant
RECKLI Flooring Resin EP Thix	similar to RECKLI Flooring Resin EP but more thixotropic therefore better suitable for rough-grained screeds	3:1	1.10	40-50	24-48	slightly thixotropic	50-55	40	resistant
RECKLI Injection Resin EP	two component resin, transparent, low-viscosity, good wetting, long potlife, especially suitable for injections and sealings of hairline cracks in cement-based surfaces, also applicable as primer for sprinkling coat systems	3:1	1.10	80-90	24-48	300	45-50	38	resistant
RECKLI Epoxy WST	two component resin, transparent, high abrasion resistance and impact toughness, high resistance to thermal deformation, exactly reproduction of pattern details, easy to cut, drill, mill or shape, nearly shrinkage-free and low-stressed curing, specially suitable for glassfiber reinforced laminates and binder for backfillings and supporting mortars by using RECKLI Filler L in mould making technique	3:1	1.10	15-20	12-24	1600	125	60	resistant
RECKLI Epoxy GC	special two component laminate resin for fibre reinforced plastics, handapplication or spray technique, for model and mould making filled with RECKLI Filler L for e.g. reliefs or raised works	100:30	1.10	10	12-24	650-750	110-120	60	resistant
RECKLI Epoxy PB	two component resin, transparent, very high resistance to thermal deformation, low-viscosity, high filling grades possible, also suitable as binder for polymer concrete	4:1	1.10	35	24-48	230	140	88-90	resistant
RECKLI Polymer Resin EP	similar to RECKLI Epoxy PB, longer potlife but lower resistance to thermal deformation	4:1	1.08	80	24-48	250	120	50	resistant

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EPOXIES · UNFILLED CASTING RESINS									
RECKLI Epoxy LB Clear	cycloaliphatic two component resin, light-transparent, low-viscosity, excellent light fastness and yellowing resistance, specially suitable as top coat for bright stone-carpets	4:1	1.10	25-30	24-48	500	50-55	35	resistant
RECKLI Epoxy LB	similar to RECKLI Epoxi LB Clear but opaque-transparent and slightly thixotropic, therefore a better filling of rough-grained stone-carpets	4:1	1.10	25-30	24-48	slightly thixotropic	50-55	35	resistant
RECKLI Electro Resin EP	two component resin, transparent, very long potlife, slow-stressed curing, insulating compound also for solid electrical and electronic components and circuitries	100:35	1.13	4 h (1000 g)	24-48	500	110-120	70	resistant

EPOXIES · POURABLE FILLED COMPOUNDS									
RECKLI Epoxy Compound 61/20	two component compound for making models, reliefs, ornaments, frames and decorations, low shrinkage, easy to tool, colour cream-white	6:1	1.50	20	24-48	3000-5000	140-145	60-62	resistant
RECKLI Epoxy Compound 71/30	similar to RECKLI Epoxy Compound 61/20, but longer potlife, colour cream-white	7:1	1.53	30	24-48	3000-5000	130-135	62-64	resistant
RECKLI Epoxy Compound 51/30	similar to RECKLI Epoxy Compound 71/30 but lower viscosity and more flexible, colour cream-white	5:1	1.45	30	24-48	2500-3500	65	38-40	resistant
RECKLI Epoxy BB	two component resin, high resistance to chemicals, abrasion resistance and compressive strength, especially for self-levelling thick film coatings, bond courses, stickings or groutings, colour grey	5:1	1.40	50 (1000 g)	24-30	3000-5000	30	30	resistant
RECKLI Epoxy BT	two component epoxy coating, pigmented, thixotropic, suitable also for vertical surfaces, colour grey	4:1	1.32	55-60 (1000 g)	24-30	thixotrop	120	50	resistant

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EPOXIES · PUTTY RESINS								
RECKLI Epoxy OH	two component surface-modified coating resin, thixotropic, for model and mould making, good resistance to plastic deformation, impact toughness and abrasion resistance, exact reproduction of mould pattern details, colour white	7:1	1.50	20-30	24	120	60	resistant
RECKLI Epoxy OH blue	similar to RECKLI Epoxy OH but blue coloured therefore better examination of coat thickness on bright surfaces	7:1	1.50	20-30	24	122	60	resistant
RECKLI Epoxy OH Scratch Proof	similar to RECKLI Epoxy OH but especially scratch resistant by Nano-Technology, colour white	8:1	1.50	15-20	24	130	60	resistant
RECKLI Epoxy OH/D50	similar to RECKLI Epoxy OH but more flexible, especially suitable for mould making in the ceramic industry, colour yellow	8:1	1.40	25	24	15 (50 Shore D)	< 20	resistant
RECKLI Adhesive Paste EP	two component adhesive resin, slightly thixotropic, sticking of wood, card board, nature or artificial stone, several metals and several plastics, colour cream-white	4:1	0.80	60-70	24	25	40	resistant
RECKLI Epoxy Flex Filler	two component filler paste, nearly shrinkage-free and quick curing, for the repair and levelling of holes, cracks, dimples, unevennesses and joints on wood, steel or cement-based surfaces which shall be coated with RECKLI Epoxy materials, colour darkgrey	1:1	1.85	4-5	24	65	35	resistant

EPOXIES · PUTTY RESINS, GLASS-FIBRE REINFORCED								
RECKLI Epoxy GF Filler	nearly shrinkage-free glass-fibre reinforced two component filler for making supporting moulds for elastic moulds or liners made of RECKLI PUR Elastomers or RECKLI Silicones, replaces heavy supporting moulds made of gypsum or concrete, colour grey	8:1	1.25	15-20 (1000 g)	12-24	–	60	resistant
RECKLI Supporting Mass EP-F Type VB	glass-fibre reinforced two component tamp composition, high resistance to thermal deformation, low specific gravity, for layers up to 30 mm, colour grey	7:1	0.60	45-55 (1000 g)	12-24	–	75	resistant

Product	Anwendung und Eigenschaften	Mixing ratio by weight	Specific gravity g/cm ³	Pot life min (21 °C / 200 g)	Earliest loading h	Compressive strength N/mm ²	Tensile strength N/mm ²	Dimensional stability under heat °C (acc. to Martens)	Temperature resistance 7 days, 100 °C (recirculated air)
EPOXIES · FILLERS AND MORTARS									
RECKLI Epoxy GS	two component priming, adhesive and levelling filler for cement-based surfaces, wood, ceramics, steel or polystyrene, especially for following thick coating with RECKLI Epoxy BB or BT	5:1	1.25	25-30 (1000 g)	24-48	35-39	30-34	35	resistant
RECKLI Rapid Epoxy Type LS	two component epoxy filler, stable, for repairing and sticking of cement-based or steel surfaces, levelling of unevenness and dints on horizontal and vertical surfaces, special application: sticking of large format concrete, colour grey	9:1	1.55	15-20 (1000 g)	24-48	55-60	35-40	40	resistant
RECKLI Epoxy Fine Concrete	stable two-component repair- or levelling mortar for cement-based surfaces, highly resistant against chemicals, high compressive and tensile strength, colour grey	25:1	2.00	25-35 (1000 g)	24-48	60	35	40	resistant



Product	Application Characteristics	Consumption
RELEASE AGENTS FOR CONCRETE		
RECKLI Stripping Wax TL	solvent containing precious release agent for a safe stripping of RECKLI Formliners, offers a high quality of exposed concrete surfaces, also best suitable for non-absorbent form-works like steel, sealed plywood, plastic-coated plates etc.	approx. 100-150 cm ³ /m ² spray in fine coats remove surplus from pattern bottom
RECKLI Stripping Wax TL-SO	similar to RECKLI Stripping Wax TL but with additional chemical active substance, specially suitable for in-situ concrete or longer lasting stripping time	approx. 100-150 cm ³ /m ² spray in fine coats remove surplus from pattern bottom
RECKLI Stripping Wax TL-W	aqueous non-polluting ready-for-use wax-based release agent, suitable for RECKLI Formliners and other non-absorbent formworks like sealed plywood or plastic-coated plates	approx. 80-100 cm ³ /m ² spray in fine coats remove surplus from pattern bottom

RELEASE AGENTS FOR MOULD MAKING		
RECKLI Mould Wax	solvent containing precious hard wax for the safe separation when making casts of liquid resins on formliners or moulds made of RECKLI PUR Elastomers or RECKLI Epoxies	approx. 50-100 cm ³ /m ²
RECKLI Polishing Wax	solvent containing liquid wax for getting polished surfaces, specially suitable for gypsum surfaces	approx. 100-200 cm ³ /m ²

RELEASE AGENTS FOR VARIOUS APPLICATIONS		
RECKLI Gypsum Release Agent GTM	aqueous, non-polluting release agent for moulding gypsum from plastics like RECKLI-PUR Elastomers, -Silicones, -Epoxies, polyethylene or polyesters	ca. 50 g/m ² on smooth surfaces, spray in fine coats, remove surplus from dips or cavities and pattern bottom
RECKLI SI Stripping Lacquer	water-soluble release lacquer for absorbent surfaces and for avoiding discolourations of the original model when using RECKLI Silicones for moulding	ca. 200-250 cm ³ /m ²

Product	Application Characteristics	Consumption
FILLERS · THICKENERS		
RECKLI Filler L	lightweight filler, blown, inorganic, for solvent-free two component resin compositions, especially for the reduction of material and weight for large sized moulds or mould parts	strongly depending on the basic viscosity of the resin, dry weight approx. 0.6-0.8 kg/l
RECKLI Filler C	bright, inorganic filler on a base of calciumcarbonate for two component resin compositions, high filling grades possible, easy to stir-in lump free	strongly depending on the basic viscosity of the resin, dry weight approx. 1.4 kg/l
RECKLI Thickener 100	cream-white powder, light, suitable for making liquid resins pasty	1-20 % depending on the viscosity of the resin and required stability
RECKLI Thickener 720	very light powder, opaque-white, for making liquid resins pasty	0.5-5 % depending on the viscosity of the resin and required stability

AUXILIARY PRODUCTS		
RECKLI SI Colour Paste	for the pigmentation of RECKLI SI Compounds, colour green	depending on the intensity of color that is needed, a few gramms per kg
RECKLI SI Thickener Liquid K	liquid thixotropic agent for making pourable RECKLI SI Compounds brushable or applicable as paste, suitable for the types SI 10.15, SI 20 und SI 20 translucent, colour translucent	0.5-1.5%
RECKLI SI Thickener Liquid AV	liquid thixotropic agent for making pourable RECKLI SI Compounds brushable or applicable as paste, suitable for the types SI 21AV, SI 26AV und SI 31AV, colour translucent	0.1-1.0%





PLEASE OBSERVE THE RELEVANT TECHNICAL PAMPHLETS AND OUR APPLICATION DIRECTIONS.



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