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1 MODEL PREPARATION

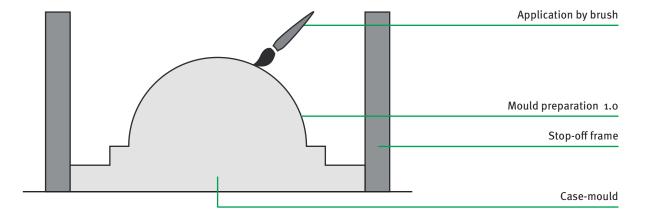
RECKLI MOULD WAX

Application

The release agent are ready-to-use and can be brushed or sprayed. For a safe release 2-3 layers are to be applied. Before application of a following layer the preceding one must be completely dry.

Consumption

approx. 50 g/m²



2 FRONT LAYER POURING TECHNIQUE

RECKLI PUR-ELASTOMER K

Property

elastic

Application

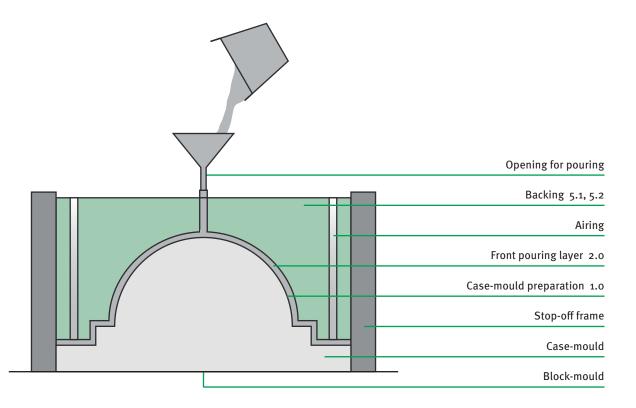
Preparation of the surface according to 1. RECKLI PUR Elastomer K is a two-component liquid resin curing nearly free of shrinkage. Hardener and base component are mixed thoroughly and poured on to the model surface (s. technical data sheet).

Layer thickness depending on thecase of application 10-20 mm

Consumption approx. 1.35 kg/l

Pot life

approx. 15 minutes (200 g)



3 FRONT LAYER BRUSHING TECHNIQUE

3.1

RECKLI EPOXY OH RECKLI EPOXY OH SCRATCH-RESISTANT

Property

hard

Application

RECKLI Epoxy OH is a hard, impact-resistant gelcoat resin being applied onto the model surface in two layers. We suggest to add a small quantity of pigment paste to one of the layers, so that the layer thickness can be controlled easier.

Total layer thickness

approx. 2-3 mm

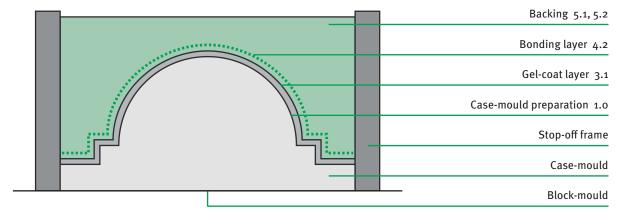
A bonding layer is applied between the Epoxy OH gel-coat layer and the backing (v. 4.2). The backing is stamped into the wet bonding layer (v. 5).

Consumption

approx. 1.5 kg/m² per mm layer thickness

Pot life

approx. 20-30 minutes (200 g)



3.2

RECKLI PUR ELASTOMER THIX

Property

elastic

Application

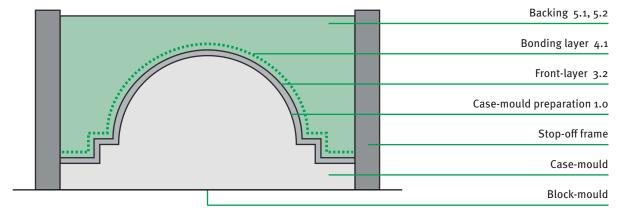
RECKLI PUR Elastomer thix is a two-component putty resins. RECKLI PUR Elastomer thix results into a layer thickness of approx. 1 mm per operation. A bonding layer (v. 4.1) is to be applied between frontlayer and backing (v. 5).

Consumption

approx. 1.4 kg/m² per mm layer thickness

Pot life

approx. 8-10 minutes (200 g)



4 BONDING LAYERS PRIMER LAYER

4.1

RECKLI CONSTRUCTION RESIN EP RECKLI EPOXY PB

Surface

flexible front-layer

Working steps

The bonding layer's function is to form a strong and firm bond between the cured, elastic front-layer of RECKLI PUR Elastomer or RECKLI PUR Elastomer thix and the backing. The best bonding values are achieved, if glass fibres are added to and mixed with RECKLI Construction Resin EP or RECKLI Epoxy PB until there is a pasty consistency like sauerkraut. This pasty mass is manually applied onto the front-layer, whereas the hands are to be protected by rubber gloves. The backing material is stamped into this fresh bonding layer.

Layer thickness

approx. 2-3 mm

Recipe

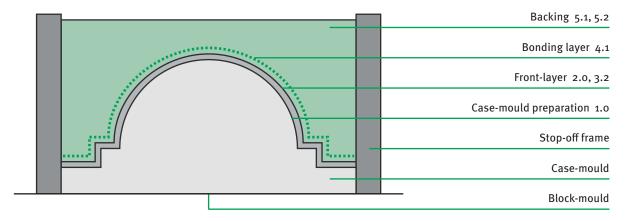
| Construction Resin EP or Epoxi PB | 80 % | 1000 g/l |
|-----------------------------------|------|----------|
| Glass fibres 3-5 mm | 20 % | 250 g/l |

Consumption

approx. 1.5-2.0 kg resin per m² for 2-3 mm layer thickness

Pot life

Construction Resin EP approx. 40-50 minutes (200 g) Epoxy PB approx. 30-35 minutes (200 g)



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4.2

RECKLI CONSTRUCTION RESIN EP RECKLI EPOXY PB

Surface

hard front-layer

Working steps

In order to get a bonding layer for hard surfaces, a certain quantity of quartz powder depending on the powder's ingredients is added to RECKLI Construction Resin EP or RECKLI Epoxy PB until there is a pasty, consistency suitable for painting. This filled resin mass is painted onto the hard front-layer.

Layer thickness

approx. 2-3 mm

The backing material is stamped into his fresh bonding layer.

Recipe

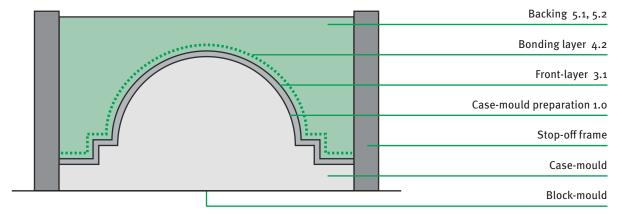
| Construction Resin EP or Epoxy PB | 65 % | 1000 g/l |
|-----------------------------------|------|----------|
| Quartz powder W 1 | 35 % | 250 g/l |

Consumption

approx. 1.5-2.0 kg resin per m² for 2-3 mm layer thickness

Pot life

Construction Resin EP approx. 40-50 minutes (200 g) Epoxy PB approx. 30-35 minutes (200 g)



5 BACKINGS EPOXY MORTAR

5.1 RECKLI CONSTRUCTION RESIN EP

Property

Temperature resistance 40 °C

Property Temperature resistance 90 °C

5.2 RECKLI EPOXY PB

Application

RECKLI Construction Resin EP and RECKLI Epoxy PB are binders based on epoxy resins for the manufacture of polymer concrete. For making backings with high exactness of measurements, the binder can be mixed with quartz sand with varying grain sizes from 0.2 mm. Light backings with a specific gravity of approx. 0.6 g/cm³ can be produced by using RECKLI Filler L instead of quartz sand.

Pot life

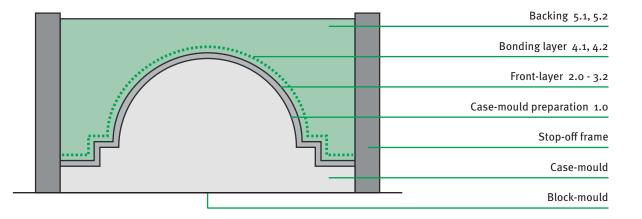
Construction Resin EP approx. 40-50 minutes (200 g) Epoxy PB approx. 30-35 minutes (200 g)

Recipe quartz sand backing

Specific gravity approx. 1.8 g/cm³

| Quartz sand 0.2-1 mm | 90-95 % | 1.62-1.71 kg/l |
|--------------------------------------------------------------------------------------|----------------------------|----------------|
| Construction Resin EP or Epoxy PB | 10-15 % | 0.18-0.09 kg/l |
| Recipe light-filler backing Specific gravity approx. o.6 g/cm ³ | | |
| Filler L | 65 % (according to weight) | o.4 kg/l |
| Construction Resin EP or Epoxy PB | 35 % (according to weight) | o.2 kg/l |

Resin EP or Epoxy PB 35 % (according to weight) 0.2 kg/l



6 SUPPORT MOULDS GRP TECHNIQUE

RECKLI EPOXY SUPPORTING MASS EP-F TYPE VB

Property

GRP Stamping Material, Temperature resistance 75 °C

Application

For manual production of thin-walled support moulds we suggest to firstly paint the fine layer RECKLI Epoxy OH onto the model surface before putting on the nearly dry stamping mass EP-F Type VB (consistency like sauerkraut). The closed fine layer smoothens the rough-fibred bearing layer EP-F Type VB on the surface.

This makes releasing and cleaning easier and reduces the danger of injuries by protruding fibres. The front and the back side are to be smoothened by RECKLI Epoxy OH.

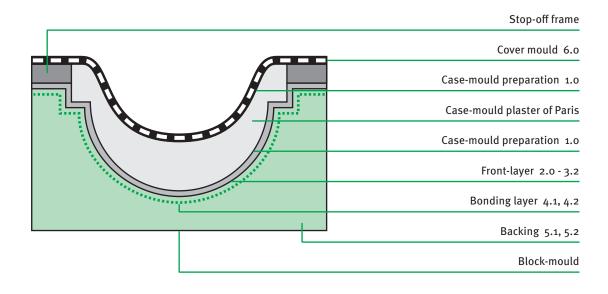
RECKLI Supporting Mass EP-F Type VB is mixed manually (hands protected by rubber gloves) and applied in a layer thickness of 10 mm.

Consumption

6.0 kg/m² (10 mm layer)

Pot life

approx. 45-55 minutes (1000 g)



7 GYPSUM RELEASE AGENT

RECKLI GYPSUM RELEASE AGENT GTM

Proberty

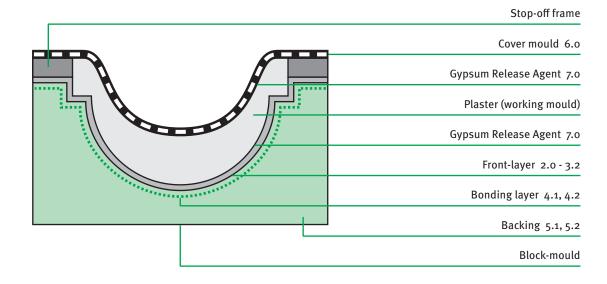
Release Agent

Application

RECKLI Gypsum Release Agent GTM is a water-based, release agent with only little affects to the environment. It is used for release between block-mould surfaces made of RECKLI PUR Elastomers, RECKLI silicone rubbers or RECKLI epoxy resins and plaster. When this release agent is used, there is no swelling of the block-mould surfaces. The absorption capacity of the gypsum mould is hardly affected.

Consumption

approx. 50 g/m²



8 ADHESIVE FOR MOULD MAKING

RECKLI ADHESIVE PASTE EP

Property

Adhesive paste free of solvents, two components

Application

For low-tension adhesion of hard foam, timber, gypsum, ceramics, especially suitable for gluing of large-volume hard-foam blocks being used for computer-aided design (CAD) of models.

Consumption

approx. 800 g/m²

Pot life approx. 40-50 minutes (200 g)

9 PRIMER FOR GYPSUM

RECKLI CONSTRUCTION RESIN EP

Property

Bonding agent between gypsum and RECKLI PUR Elastomer

Application

Bonding agent between gypsum and a front cast of RECKLI PUR Elastomer. A maximum drying time of 3-4 hours should not be exceeded. If it happens, a new application of primer is necessary; in this case the previous layer must be ground for better bonding.

Consumption

approx. 200 g/m²/painting

PRODUCT OVERVIEW

| PRODUCT API | PLICATION 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 | VELONGATION AT % | HEAT RESISTANCE °C | COLOUR |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------|----------------------------------|---------------------------------|--------------------|---------------------|--------------------------------|-------------------------|---------------------|-----------------------|--------|
| RECKLI PUR solv Elastomer K liqu urei shri slic | e-ELASTOMERS, POURA vent-free, rubbery-elastic, uid, two-component poly- thane, cold-curing, almost inkage-free, after curing teable and grindable. cdness: 60 Shore A, Color: grey | 9:1 | 1.35 | 10-15 | >24 | Base 3000 | 60 | nearly free of shrinkage | 15 | 500 | 60 | grey |

| RECKLI PUR Elastomer thix | two-component compound, thixotropic, paste-like, especially suitable for moulding on vertical surfaces | 9:1 | 1.40 | 8-10 | approx. 5 | pasty | 55 | nearly free of shrinkage | 10 | 300 | 60 | grey |
|------------------------------|-----------------------------------------------------------------------------------------------------------------|-----|------|------|--------------|-------|----|--------------------------------|----|-----|----|------|
|------------------------------|-----------------------------------------------------------------------------------------------------------------|-----|------|------|--------------|-------|----|--------------------------------|----|-----|----|------|

Notes as to Consumption Rates and Pot life

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The consumption rates we stated are due to experience from practice. Depending on the actual case of application there may be higher or lower consumption rates than those stated by us.

Our indications on pot life and workable time are to be understood as general directives, too. There is a strong dependency between pot life and the temperature of the material / the surrounding area. The quantity of the mixed material is also an important factor.

Temperatures of 18 °C to 20 °C are the basis for our indications. The mixed quantity is stated behind the pot life. Higher temperatures and larger mixing quantities reduce the workable time proportionally to a great extent. Please observe the relevant technical pamphlets and our application directions.

| 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 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 | UNFILLED CASTING RESINS | 2:1 | 1.10 | 40-50 | 24-48 | 1000-1200 | 70-75 | 40 | resistant |
| Construction Resin EP | 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 o rscreed and compounds | | | | | | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----|-------|-----|-----|-------|-----------|
| 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 |

EPOXY RESINS, PUTTY RESINS

| RECKLI Epoxy OH | two component surface-modified coating resin, thixotropic, for model and mould making, good resistance to plastic defor- mation, 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 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 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 |

EPOXY RESINS, GLASS-FIBRE REINFORCED

| for layers up to 30 mm, colour grey | 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 | |
|---------|--|
| | |

APPLICATION | CHARACTERISTICS

RELEASE AGENTS FOR MOULD MAKING

RELEASE AGENTS FOR MOULD MAK

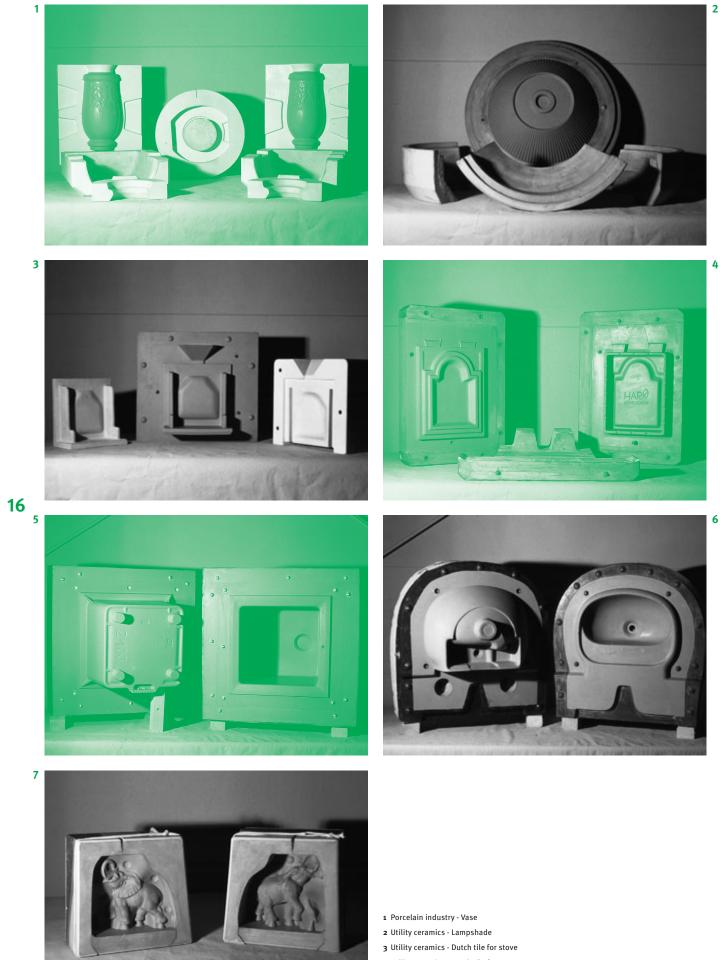
| RECKLI Mould Wax | solvent containing precious hard wax for the safe separation when making casts of liquid resins on formliners or moulds made of RECKLI PUR Elastomers or RECKLI Epoxies |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ••••••••••••• |

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 | approx. 50 g/m² on smooth surfaces, spray in fine coats, remove surplus from dips or cavities and pattern bottom |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|

CONSUMPTION

approx. 50-100 cm³/m²



- 4 Utility ceramics Dutch tile for stove
- 5 Sanitary ceramics Laboratory basin6 Sanitary ceramics Wash hand basin
- 7 Decorative ceramics Elephant
- 6 Sanitary ce



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