



DESIGN & MOULDS CASE MOULDS PARTS REPAIRATION ANCILLARY PRODUCTS

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CERAMIC TOOLING SOLUTIONS



ISO 9001



ISO 14001

Axson
TECHNOLOGIES

MODEL MAKING

Thanks to its experience on the design market, Axson develops products dedicated to the production of prototypes parts.



F 23

Quick setting polyurethane system having a texture close to modelling plaster, which produces achieving tools, models and parts with a high finished surface. Easy sanding and polishing.



PROLAB 65

Medium density machinable board replacing wood or plasters, for the production of accurate models, mock up, master either in NC machining or manual operation with traditional wood tools.

CASE MOULD PRODUCTION

The epoxy and polyurethane AXSON offer consists of combinable products, approved by the professional to produce reliable and resistant tools.

FLEXIBLE



UR 3435 L

Flexible polyurethane resin of 63 shore A. Ideal for manual application thanks to its mixing ratio 1/1 and its low viscosity. Good abrasion resistance and easy sanding.



UR 7855

New casting system for case moulding soft membranes. Especially formulated to achieve dimensional stability. Suitable for all kind of tools. Long pot life for easy handling.

HARD SURFACES



GC1 050

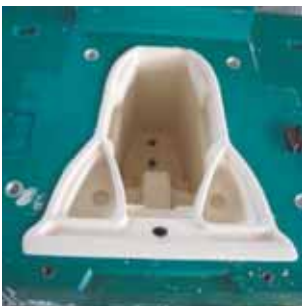
White Epoxy Gelcoat to produce a rigid surface, quick hardening, easy sanding and polishes.



GC1 080

Blue Epoxy Gelcoat, good thermal chemical resistance, easy sanding and polishing. Applicable also on wet plasters with hardener GC 10.

REINFORCEMENTS



EPOLAM 2002

Epoxy system specially developed for the ceramic industry, with low viscosity, good thermal resistance without post-cure. Odourless for the production of laminates and high thickness concrete. Fast hardening at room temperature.



EPOLAM 2010 SYSTEM

General-purpose epoxy resin in combination with 3 hardeners for hand lay up of laminates or concrete, suitable in all applications and accepts several types of fillers.



EPOPAST 400

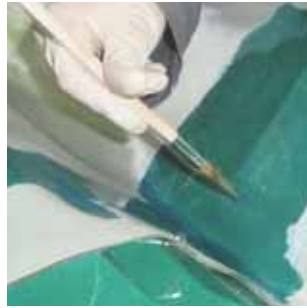
Ready-to-use epoxy mixture of fibres and resin. EPOPAST 400, after mixing with its hardener gives a rigid paste for tough reinforcement, light weight and easy to use.



PRESSURE MOULD

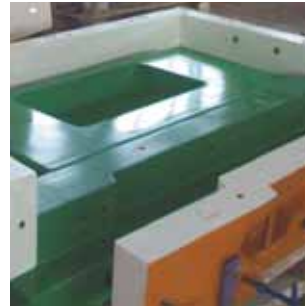
PRODUCTION

The evolution of manufacturing processes involves temperature resistance and stability. Axson offers a variety of epoxy resins having Tg's to 100° C as well as machinable boards with very good dimensional stability and high mechanical performances.



EPOLAM 2025 EPOLAM 2050

High-temperature laminating epoxy systems, very good mechanical performances. Useful with glass fibre reinforcements dedicated to cast porous acrylic system or concrete resin to make strong tools (according to the dimension of the tools).



GC2 120

Epoxy Gelcoat having a very high abrasion resistance, combined with a high thermal and mechanical resistance.



LAB 1000

High-density board, with high mechanical performances, with excellent dimensional stability for the use in model or in direct mould.

PU FOAM SETTERS



EPOLAM 2002 GC1 080

Epoxy moulds for light weight setters for ceramic parts drying; Gelcoat + laminate or concrete. Thermal and mechanical properties are matched for moulds dedicated to hand casting of rigid PU Foam.



A 100/200

This epoxy bi component system in a cartridge offers bonding of mineral support and a fluidity adapted to fill cracks or minor defects on slip side.



S1 BEIGE

Epoxy gelcoat, with colour matching non enamelled ceramic, has to be applied by brush on end parts to reinforce and hide defaults like cracks on the back of parts. Quick setting system.

ANCILLIARY PRODUCTS

SEALERS

- 821** Pore-sealant. Apply with a brush or spraygun.
- WAX 827** Multipurpose wax in paste form for low porous supports. Apply with a rag.

RELEASE AGENT

(tools & model making)

- Release agent 841** Wax in solvent phase for non porous supports. Polishable product.
- Release agent 851** Heavy wax in spirit suspension, not be polished.
- Release agent 870** Wax in aerosol in solvent phase. Sprayable.

FILLERS

AXSON fillers are compatible with polyurethanes and epoxies

References	Type	Particle or fiber size	density		Main application	Packaging	
			true	apparent		kg	liter
RZ 331	Short glass fibres	length 6 mm	2.5	1.7	Physical linkage between gelcoat and laminate or casting	20	11.7
RZ 30002	Aluminium silicate microballon	0.3 mm	0.7	0.4	Light concrete mixes	20	50
RZ 30150	Hydrated alumina	0.07 mm	2.4	1.2	Surface casting (Resin + 150phr of RZ 30150)	25	20.8
						15	12.5
						5	4.2

Selector Guide

MODEL MAKING					
References	Main features	Density	CTE	Tg °C	Hardness shore
PROLAB 65	Fine grain, easy machining.	.65	75	85	63
References	Main features	Mixing Ratio	demoulding time	Tg °C	Hardness shore
F 23	Mineral aspect, easy processing.	100/20	30'	55	80
CASE MOULDS PRODUCTION					
References	Main features	Mixing Ratio	demoulding time	Tg °C	Hardness shore
FLEXIBLE					
UR 3435L	Low viscosity, high mechanical properties.	100/100	16	-	65/63
UR 7855	Improved chemical resistance, low shrinkage.	100/50	24	-	55
HARD SURFACES					
References	Main features	Mixing Ratio	Density	Tg °C	Hardness shore
GC1 050	Polyvalent gelcoat, sandable.	100/10	1.45	50	83
GC1 080	TG°C improved, sandable.	100/10	1.74	85	89
REINFORCEMENTS					
References	Main features	Mixing Ratio	demoulding time	Tg °C	Hardness shore
EPOLAM 2002	Epoxy for concrete, polyvalent, fast curing.	100/12	16h	65	86
EPOLAM 2010/2010 /2011 /2012	3 hardener system, good wetting for laminate.	100/50	16h	50	83
		100/50	24h	50	83
		100/50	36h	55	83
EPOPAST 400	Easy handling, low density, good mechanical properties.	100/14	24h	70	80
PRESSURE MOULD PRODUCTION					
References	Main features	Mixing Ratio	demoulding time	Tg °C	Hardness shore
EPOLAM 2025	High temperature over 100°C, Tg resistance.	100/28	24h	135	87
EPOLAM 2050	High temperature over 100°C, Tg resistance.	100/32	24-36h	125	87
GC2 120	High temperature, gelcoat heat and abrasion resistant.	100/15	-	120	89
References	Main features	Density	CTE	Tg °C	Hardness shore
LAB 1000	High dimensionnal properties.	1.67	50	92	85
PU FOAM SETTERS					
References	Main features	Mixing Ratio	demoulding time	Tg °C	Hardness shore
EPOLAM 2002	Epoxy for concrete, polyvalent, fast curing.	100/12	16h	65	86
GC1 080	Tg °C improved, sandable.	100/10	-	85	89
CERAMIC REPAIR					
A100/200	Quick epoxy cartridge, thixotropic.	10/100	-	40	80
S1 BEIGE	Bulk epoxy polishable high coating ability.	100/10	16h	50	83

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