

EP 4202 Epoxy gelcoat

FEATURES

- Excellent finish
- Solvent resistance
- Sandable

COMPOSITION

- Part A: epoxy resin EP4202
- Part B: amine H4202



EP 4202 is a two-component, mineral-filled epoxy surface coating that can be applied by brush. Curing at room temperature, hardness 88 shore D.

APPLICATIONS

- Designed for the production of patterns, gauges, negatives and electro forming tools.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local sales representative prior to writing specifications on this product.

Property	Unit	Value
Colour (Resin A/Hardener B)	visual	White / Amber
Density at 23°C (Resin A/Hardener B)	g/cm ³	1.60 – 1.70 / 0.96 – 1.01
Viscosity at 23°C (Resin A/Hardener B)	mPa.s	Paste / 70 – 110
Colour (Mixture)	visual	White
Density at 23°C (Mixture)	g/cm ³	1.50 – 1.60
Viscosity at 23°C (Mixture)	mPa.s	Tixotropic liquid
Mixing ratio	pbw	100 : 10
Pot life at 23°C (150g)	minutes	35 – 55
Demoulding	hours	12 – 16
Hardness	Shore D	86 – 90
Flexural strength	MPa	43.0 – 49.0
Flexural modulus	MPa	5000 - 5600
Tensile strength	MPa	14.0 – 17.0
Elongation at break	%	1.0 – 2.0
HDT	°C	50 - 60

SETTINGS

The surface of the pattern should be treated with waxy release agent. Porous materials should be well sealed with sealer.

USE

Mix the two components in the indicated proportions. Both components must be mixed thoroughly, paying attention to the material on the edges of the container and not to incorporate too much air. The mixed material should be applied at least in two separate hands on the mold with a brush, to have a thickness of at least 0.5mm per layer. Recommended final film thickness should not exceed 2.5mm.

To ensure good adhesion before applying the second coat, wait until the first coat has gelled to a tack free state. The gelcoat is tack free if when a finger is lightly drawn across the surface, no material sticks to it, but if firmly pressed, a mark will remain on the surface.

HANDLING PRECAUTIONS

The information for a correct and safe handling of the products are contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks for health and environment and for suitable protective devices to be adopted. Share the safety

data sheets with all the staff involved in the use of the products.

PACKAGING

Resin is supplied in 1kg containers, hardener in 100g containers.

USABLE LIFE - STORAGE

Resin and hardener must be stored in the original unopened containers at a temperature between +10°C and +35°C. Be sure to close the containers after use. Resin and hardener, if stored under certain conditions, have a shelf life of 12 months from the date of manufacture.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

The information contained in this document is offered in good faith based on Chemix research and is believed to be accurate. However, as the conditions and methods of use of our products are beyond our control, this

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