

EPOXY EASY FLOW 100



2-component, low yellowing high performance epoxy resin for binder applications

DESCRIPTION AND APPLICATION

Epoxy LY 100 a 2-component, colourless epoxy resin, designed for general purpose uses in multilayer systems. Allows to obtain a self-leveling flooring 2-3 mm thick in one coat.

APPLICATION

Designed for applications in dry zones. Usable on wet zones if sand is broadcasted on top. Smooth, glossy finish and easy to clean. Best suited for:

- Industrial flooring.
- Poorly ventilated areas.
- Parking decks.
- Warehouses.

It can also be used as primer for all the multilayer or self-leveling epoxy systems. Different combinations are available depending on the chosen system, fillers and desired pigmentation.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Epoxy resin	Polyamine mixture
Physical state	Liquid	Liquid
Packaging Note: Pigment is delivered in a third container. See Pigment Spray data sheet for specific details.	Metal container 10 kg	Metal container 5 kg
Non-volatile content (%)	98%	98%
Flash point	>120°C	>100°C
Colour	Colourless	Slightly yellow
Density	Temp (°C) Density (g/cm3) 23 1,11	Temp (°C) Density (g/cm3) 23 1,05
Viscosity		
Approximate values Brookfield	Temp (°C) Viscosity (mPa.s) 35 60 25 170 15 375 5 710	Temp (°C) Viscosity (mPa.s) 35 83 25 150 15 320 5 800
VOC	7 g/L, 0.7%	20 g/L, <2%
A/B mixing ratio	A=100, B=40 by weight A=100, B=42 by volume	
Mixture properties	Density: 1,06 g/cm3 at 23°C Viscosity: 236 mPa.s at 23°C Colour: colourless or slightly yellow	
Pot life	Temp (°C) Pot life (100, min) 6 <70 20 40 35 25	
Storage	Keep between 10°C and 30°C, in a dry place. Component A may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating it to 70 - 80 °C and stirring it thoroughly.	
Use before	12 months after manufacturing date.	

INFORMATION ON THE FINAL PRODUCT

Final state	Solid film
Colour	Colourless, slightly yellow
Hardness (shore)	80D
Mechanical properties	Elongation at break: 8% Ultimate tensile strength: 23 MPa (EN-ISO 527-3)

Solid density	1,10 g/cm3																														
Tear strength	5,4 N/mm																														
UV resistance	A slight yellowing, far more reduced than that of other epoxy compositions under sunlight is expected, without loss of mechanical properties.																														
Chemical resistance	Permanent contact (3 days, 80°C)																														
	<table><tr><th>Chemical</th><th>%weight gain</th></tr><tr><td>Water</td><td>0</td></tr><tr><td>Methoxypropyl acetate</td><td>5</td></tr><tr><td>Isopropyl alcohol</td><td>0</td></tr><tr><td>Skydrol</td><td>0</td></tr><tr><td>Xylene</td><td>3</td></tr><tr><td>Ammonia (3%)</td><td>0</td></tr><tr><td>Diesel</td><td>0</td></tr><tr><td>Hydrogen peroxide</td><td>2</td></tr><tr><td>Sodium hydroxide (40 g/L)</td><td>0</td></tr><tr><td>Bleach</td><td>2</td></tr><tr><td>Sulphuric acid (10%)</td><td>0</td></tr><tr><td>Sulphuric acid (30%)</td><td>2</td></tr><tr><td>Sulphuric acid (50%)</td><td>2</td></tr><tr><td>Acetic acid (10%)</td><td>0</td></tr></table>	Chemical	%weight gain	Water	0	Methoxypropyl acetate	5	Isopropyl alcohol	0	Skydrol	0	Xylene	3	Ammonia (3%)	0	Diesel	0	Hydrogen peroxide	2	Sodium hydroxide (40 g/L)	0	Bleach	2	Sulphuric acid (10%)	0	Sulphuric acid (30%)	2	Sulphuric acid (50%)	2	Acetic acid (10%)	0
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Surface contact (24h, room temperature, 5=ok, 0=not recommended)

Chemical	Result
Water	5
Engine oil	5
Vinegar	5
Hydrogen peroxide	5
Sulphuric acid (10%)	5
Sulphuric acid (30%)	5
Sulphuric acid (50%)	5
Isopropyl alcohol	3
Xylene	2
Ammonia (3%)	5
Diesel	5
Methoxypropyl acetate	3
Acetic acid (10%)	3
Bleach	5
Sodium hydroxide (40 g/L)	5
Skydrol	5

Adhesion strength

Surface	Adhesion strength (mPa)
Concrete	<0.05

Use temperature Stable up to 80°C

SURFACE REQUIREMENTS

- In order to achieve a good penetration and bonding, surface must be:
1. Flat and levelled (Product is self-levelling)
 2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm2).
 3. Even and regular surface
 4. Free from cracks and fissures. If any, they must be previously repaired.
 5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

TEMPERATURE AND AMBIENTAL CONDITIONS

Application must be done at surface temperature of 3°C above dew point. Air temperature must be above 5°C and relative humidity below 80%. Application temperature must be less than 40°C. Optimal temperature range is 10°C- 30°C.

These temperatures must be constant throughout drying process. Application should be done with plenty of air/ventilation.

SURFACE PREPARATION

Concrete surfaces must be previously prepared by sandblasting or any other suitable means. Remove all dust and loose material before priming.

Cut suitable joints along the concrete slab, depending on the total surface to be covered.



JOFA RESINS
SUPPLIER OF AMAZING PRODUCTS & SERVICES

Unit 26 Weald Hall Farm Commercial Centre,
Canes Lane, North Weald, Essex CM16 6FJ
(+44) 0203 940 4560
www.jofaresins.com

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MIXING

Stir and homogenise thoroughly component A and B using a low-speed stirrer. The mixture turns to a homogenous clear liquid. Do not mix more material than the amount usable within the pot life window.

APPLICATION

To ensure good aggregate binding, the resin amount will depend on several points:

- Grain size
- Dust content in the mineral aggregates
- Degree of absorption of the mineral aggregates.

Depending on these points, the required amount of resin will range from 3% to 10% of the mineral aggregates, by weight.

CURING TIME

For a 500 g/m² thick application.

Conditions	Dry to touch (h)
35°C, 25%hr	2
23°C, 50% hr	8
23°C, 5% hr	9
7°C, 60°C	>20
-15°C	uncured

REAPPLICATION

A second application may be done when the first one is dry to touch, and always within the first 24 hours.

TOOL CLEANING

Cleaning of tools contaminated with both components must be done with SINDEC xylene.

SAFETY

Epoxy components are potentially sensitizing. Component B is corrosive. Always follow instruction provided in the Material Safety Data Sheet. As a general rule, suitable skin and eye protection must be worn. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This data sheet supersedes previous versions.



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