ipox® chemicals
customized epoxy technologies

Technical Data Sheet

ipox® MR 3010/MH 3124 system

PROPERTIES

- Two component medium viscosity cast and laminatig resin system
- Good wetting properties
- Large proportion can be loaded
- Good heat resistance & mechanical properties especially after heat treatment
- mixing rate A:B = 100:33
- Base: modified bisphenol A/F resin; modified cycloaliphatic amine hardener
- curing from +15 °C temperature

TYPICAL APPLICATIONS

- Laminating and producing heat resistant tools.
- Models, filling negatives and tools.
- Carbon fiber or manufacture of glass fiber composites.
- An even temperature and low humidity is very important in producing a good quality product.

TECHNICAL DATA *

	PARAMETER	UNIT	FIGURE	METHOD
Component A	Epoxy-Equivalent Weight	g/equiv.	175-190	ipox 001
(MR 3010)	Epoxy value	equiv./100g	0,52-0,57	ipox 001
	Viscosity** [25°C]	mPa·s	800-1200	ipox 010
	Density [25 °C]	g/cm^3	1,10-1,15	ipox 017
Component B	Amine value	mg KOH/g	450-470	ipox 002
(MH 3124)	HEW	g/equiv.	60	
	Viscosity** [25 °C]	mPa·s	40-70	ipox 010
	Refractive index [n_D, 25 °C]	-	1,494-1,500	ipox 016
	Density [25 °C]	g/cm^3	0,95	ipox 017

* typical data; please ask for the specifications

** Brookfield R/S-CPS cone/plate rheometer

TECHNICAL DATAS*

	PARAMETER	UNIT	FIGURE	METHOD
System	Mixing ratio (A+B)	g/100g resin	33	
	Pot life**	min.	30	ipox 024
	Viscosity of mix*** [25 °C]	mPa·s	500	ipox 010
	Minimum application temperature	°C	+15	
	Bonding time [25 °C]	day	1	
	Solid	day	7	

* typical data; please ask for the specifications

** 100 g, 25 °C, GELNORM Geltimer-TC

*** Brookfield R/S-CPS cone/plate rheometer

DIRECTION FOR USE

The system "A" and "B" component mix perfectly in a suitable container to the specified mass fraction. The mixture's further dilution is not recommended. An even temperature and low humidity is important to produce good quality product.

The mold, which can be made of metal, wood, plaster, plastic, thermoplastic, prior to use should be covered with form separative. For this purpose, the silicone grease, silicone separatives have worked well. The surface pores of wood and plaster molds must be sealed off.

When laminating, pour the mixture in the middle of the surface and spread it with a roller or brush evenly apart, and then "process in" the fabric for the entire soaking. On that not fully tied, still sticky surface to ensure perfect adhesion additional layer can be poured. When the surface of the casting has completely hardened, make sure whether the surface is dry, dust-free and fat-free or not.

STORAGE

Keep cool and dry out of sunlight, on the room temperature. We assure one year guarantee of keeping quality, when standard storage is adherenced.

PHYSIOLOGY AND LABORATORY SAFETY REGULATIONS

While dealing with epoxy resins and curing agents, please consider the safety precautions mentioned in the risk and safety phrases. Avoid pollution of the unprotected skin - wash off with warm water and soap, if necessary. Wear protective clothing and use barrier cream before starting your work, please!

Always ensure that all health and safety procedures are in accordance with local and national Government requirements.

contact information:

www.ipox-chemicals.com
mail@ipox-chemicals.com
Phone: +49 (0) 7392 9 77 28 0