

# SAFEPOXY® SEALANT

## Two-component epoxy sealant

### SAFEPOXY® Sealant

- bisphenol A-free
- resin bio based at 37%
- UV resistant
- excellent sandability

**Safepoxy® Sealant** system is intended for repair or shape refilling.

It is a two-component thixotropic epoxy system bringing body and holding properties. The excellent adhesion of epoxy systems ensures its effectiveness on different types of supports.

It is a solvent-free system which has no shrinkage.

**Safepoxy® Sealant** gets hard and sandable after 16 h at ambient temperature and develops its final hardness after post-curing.

### Applications

Filling of cracks, filling of form, coating, sealing, realization of joints...

Application by a spatula, sandable with fine-grained paper, low clogging of sanding media.

Incorporate SAFEPOXY Mastic Filler at a rate of 10% (by weight) into the Safepoxy Mastic Resin + Hardener mixture using a mechanical mixing method

### Reactivity

The bicomponent **Safepoxy® Sealant** was developed to be hard and sandable in 16 h at room temperature.

		SAFEPOXY® SEALANT
Mix ratio (in weight)		100 : 40
Gelling time (/70 g) at 20 °C (min)	ISO 2535	14
Exothermic peak (/70g) (°C)		154



BPA-free  
Limited  
expositions for the  
users  
Bio based

### COP makes the DIFFERENCE

SAFEPOXY® resins have lower toxicity compared to market standards.

They are formulated **without Bisphenol A**, an endocrine disruptor identified as SVHC (Substance of Very High Concern), capable of interfering with our hormones and producing adverse effects even at very low doses.

Beyond being BPA-free and having similar mechanical properties to the marketed epoxy resins, SAFEPOXY® resins are partially bio based.

COP succeeded in substituting BPA for molecules derived from biomass. The renewable carbon source contained in SAFEPOXY® resins comes from the fermentation of sugars and does not represent any health hazard (*INSERM 2016 study*).

## Cross-linking profile

	T <sub>g</sub> (°C)
7 d at 23 °C	50
24 h at 23 °C + 16 h at 60 °C	66

We recommend a 24 h curing cycle at room temperature to allow the material to form a homogeneous network, then 16 h at 60 °C in order to tighten the network and to reach the optimum performance of the resin.

## Handling and safety

Mix well the hardener before use.

The 100/40 mixing ratio must be strictly respected by weighing the two components. Our kits of 3 different sizes are provided to facilitate the preparation of your application process.

!/\ We warn users on "mass effect" : the exothermic released by epoxy potted systems. We recommend to make preparations in limited quantities in pots of large diameters to allow a better evacuation of calories.

The epoxy hardener part is composed of amines that are irritating in nature. Although we took care to select the least dangerous ones, it is essential when handling to strictly observe the appropriate safety and hygiene measures:

- Good ventilation,
- Wearing gloves and goggles.

For more information, please refer to the safety data sheet.

The resin and hardener must be mixed until a perfectly homogeneous system is obtained. Ensure avoid incorporating too many bubbles in the system during the stirring. The mixture is then poured into a clean pot for use.

Securely close the amine can after use at the risk of strong reactivities and exothermies because of their great hygroscopy.

The system is applied to the support to be covered or filled with a spatula at ambient temperature of 20-25 °C to ensure a complete reaction of the components. At a higher temperature, the reaction can be catalyzed and have a reduced gel time.

It is possible to clean tools that are soiled with epoxy, even crosslinked, using our bio sourced and unlabeled **GreenCleaner** cleaning solvent. It can be used with a cloth or by dipping.

## Storage and packaging

**Safepoxy® Sealant** resin and its hardener are guaranteed for 18 months if stored in closed packs at 15-25°C and protected from moisture and light.

SAFEPOXY® SEALANT	1,4 KG KIT	
SAFEPOXY MASTIC - SEALANT RESIN + FILLER	1KG	SPM RC01
SAFEPOXY MASTIC - SEALANT HARDENER	0,4KG	SPM D01

## Custom codes

SAFEPOXY® MASTIC - SEALANT RESIN	29109000
SAFEPOXY® MASTIC - SEALANT HARDENER	29215990

*The information in this document are provided in good faith and based on our current know-how. It is therefore only indications and not of formal constraints, especially if the product is not used in accordance with the applications contained in this data sheet. A pre-test will therefore always be the basis of relevant conclusions for the user. The user of this product agrees to comply with the legislation in force regarding the disposal of waste.*