

Practice tips

We supply various types of unsaturated polyester resins (UP) for the production of moulded parts, vehicle parts or other components. In the following, we have compiled the most important handling points.

Labour Protection Measures:



Wear protective gloves



Wear eye protection



Ventilate the room well

Processing instructions:



No direct sunlight



Air humidity: 60 - 70%



Working temperature: 15 - 25°C Not below 15°C!

High temperatures accelerate curing ↔ lower temperatures can greatly slow it down.

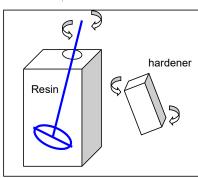


Practice tips

Mixing the resin system:

Stir all components thoroughly before dosing. Alternatively, smaller containers can also be shaken thoroughly.

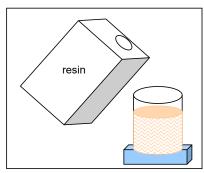
Sufficient homogeneity is absolutely necessary for smooth curing.



Stir / shake the components

Place the resin in a suitable stirring vessel.

Attention: Do not use cups made of polystyrene, as this will be attacked by the polyester resin!

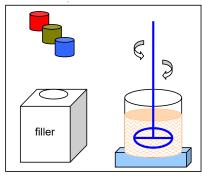


Submit resin

If colourants / fillers are used, it is imperative that they are mixed homogeneously.

For smaller quantities, the hardener should be added drop by drop using the pipette provided. Larger amounts can also be weighed out.

Basically, the specified resin/hardener ratio (100 : 2) must be strictly adhered to.

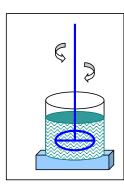


Stir in colouring agent / fillers

After the entire batch has been stirred intensively, including the marginal zones, the material can be processed.

From a batch size of 2kg, it is recommended to use a stirring rod for the drill.

To ensure exact mixing, it is advisable to pour the resin into a flat container (e.g. a paint tray) before processing. Due to the larger surface of a tub, the synthetic resin does not heat up as quickly, which supports compliance with the specified processing time.



Mix intensively



Practice tips

Example of a calculation:

100 g Submit polyester resin XX g Stir in colour pigment

To avoid lumps in the resin-hardener system, the fillers should be added through a sieve (like icing sugar!).

Mix in fillers XX g Add hardener

Afterwards, mix the entire batch intensively!

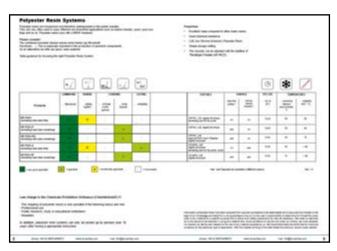
Important: Only mix as much as you can process within the pot life!

You are welcome to use our selection guide to help you choose the right polyester resin. This can be found in our online shop under the heading "Downloads > Decision support".

Or conveniently via this QR code:











Our business areas:







Composite Materials









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