

Make your own epoxy resin mortar

Making epoxy mortar yourself is not a work of art, rather very simple and incredible in its properties. Epoxy resin mortar is waterproof and frost-resistant. It is particularly often used in construction, industry and renovation work in private households. In our example, you can see a staircase for the outdoor pool. Use Resin Mortar for reliable repair of chipping in concrete parts, holes and defects in concrete and screed, as well as for various assembly work. EP mortar has the advantage over conventional cement mortar that it can coat repair areas that are subject to mechanical stress (e.g. driven surfaces) or even unevenness in the millimetre range. In contrast, cement mortar in such situations would quickly flake or crumble under subsequent mechanical stress. In addition to the high mechanical load-bearing capacity, properly processed and cured epoxy resin mortar is characterized by high chemical resistance to de-icing salt solutions, oils, greases, fuels and a variety of mineral and diluted acids. The processing effort for cement mortar and epoxy resin mortar is comparable.

It is quite easy to make epoxy resin mortar yourself. Simply use our solvent-free **epoxy resin 4307 + hardener 313** system and mix it with eight to ten parts of a completely dry silica sand mixture. Make sure that the grain size of your **quartz sand** is suitable for your application.

Before you begin, prepare the surfaces to be worked on by removing any loose or brittle areas and sweeping or vacuuming the area thoroughly. We recommend that you set up a workstation by providing an underlay to catch dirt. Make sure it's large enough to put all the work utensils you need on it. Required materials include two mixing buckets, gloves, a breathing mask, an agitator, a scale, quartz sand, cleaning cloths, a trowel or squeegee, and a container of acetone to clean your work materials. Alternatively, you can use another suitable cleaner to clean your tools.

Now mix your resin and hardener according to the instructions in a mixing cup or bucket, make sure to incorporate the bottom and walls and stir until no streaks can be seen in the resin.

Then, pour the resin into a bucket that is large enough for your project. Gradually add your quartz sand until you are satisfied with the consistency. Stir the mixture thoroughly, either with an agitator drill or a stirring rod.

In our case, it's the other way around, as we already knew the set.



Process the finished mortar immediately after mixing, note that the reaction of the mixture depends on the volume of the container in which it is located. Resin reacts faster and thus gets hotter in a tall container, but if you use the resin in a flat wide container, the reaction time takes longer. You have about 20 minutes to do this, after which the mortar slowly hardens and is more difficult to apply.

Apply the epoxy resin mortar to the substrate with a trowel or squeegee. You can process a maximum layer of 5 cm thickness per work and curing process. If you need to process a higher layer, wait at 20°C° for 4-12 hours. Do the finger test with a glove, the mixture should no longer be able to shift. After 20 hours, the epoxy resin mortar is solid and walkable, and after 7 days of curing time, it is completely resilient.



**Our team will be happy to help you. Phone 035341-47469
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