

# Mandana Polymer Industrial Group

Manufacturer of Liquid waterproofing membrane Epoxy Adhesive, Epoxy Flooring part making epoxy & Polymer Detergent

## Epoxy resin to strengthen slab stone



Stone resin, or stone adhesive, is a two-part material made of epoxy resin and modified polyamine hardener. (colourless), both with the right thickness.) and transparent EF40 It's solvent-free and comes in two grades: EF20 stone resin gives the stone a shiny finish and makes it more durable, lasting longer and preventing wear EF40

Stone glue makes natural stone highly resistant to UV rays and doesn't shrink. It's widely used in stone-cutting factories to reinforce stone with fibreglass mesh and fill voids on top of slabs due to its strong impact resistance and mechanical properties

coloured epoxy resin is great for strengthening stone with mesh. It's cheaper than transparent resin and EF20 offers strong impact resistance. Usually, the transparent resin is used on the surface, while the coloured resin is used on the back of the stone

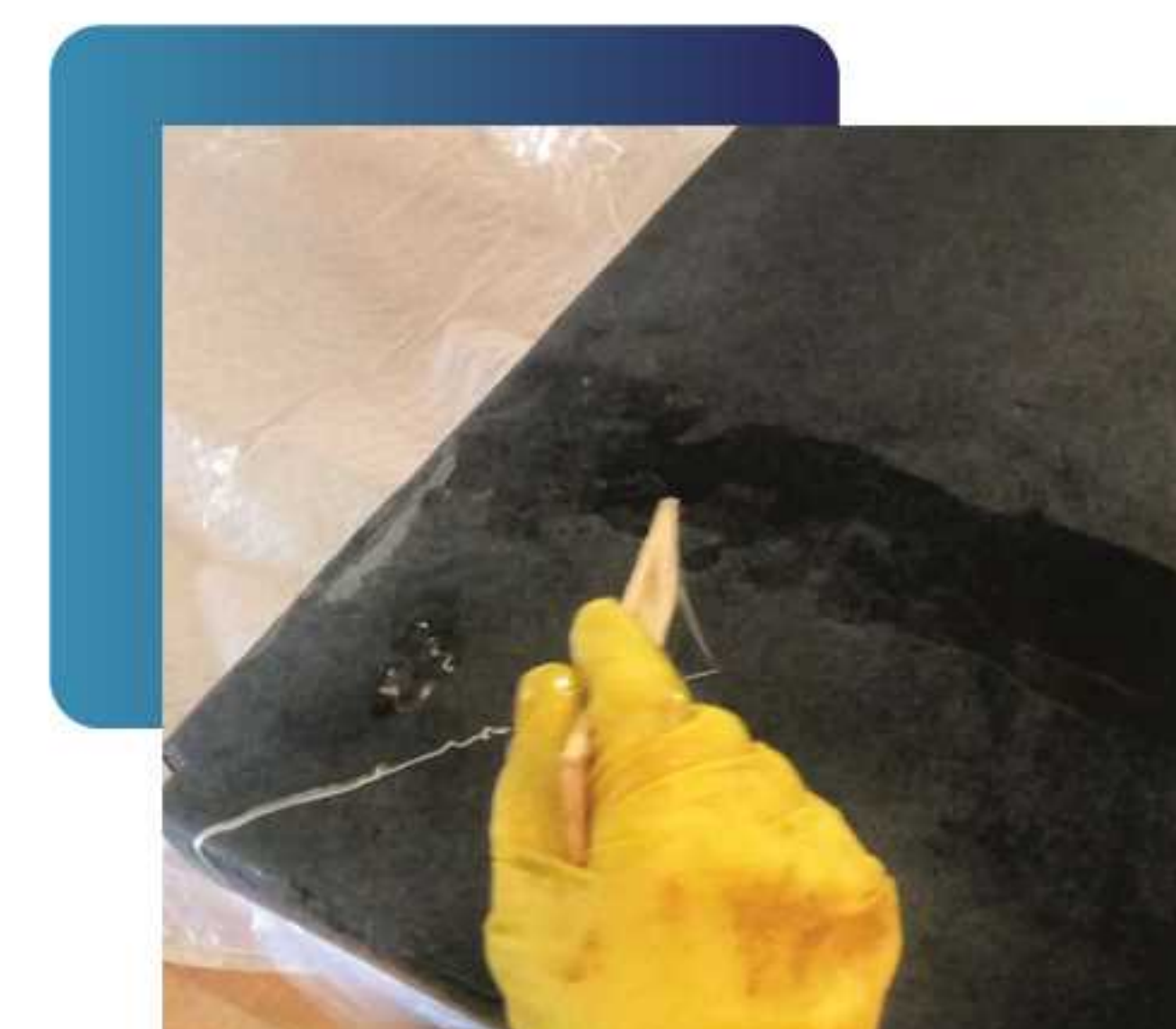
Our company specializes in producing different types of resin adhesives using advanced technology to ensure top-quality products. Our epoxy stone resin enhances the appearance of building stone, improves productivity in the natural stone industry, reduces waste from stone cutting, and fixes porous stone surfaces

### Features and application

Feature	Application
<ul style="list-style-type: none"> <li>• Resistant to water and sunlight</li> <li>• Provides UV protection</li> <li>• Highly resistant to chemicals</li> <li>• Strong and flexible</li> <li>• Dries quickly</li> <li>• Bonds well to stone surfaces</li> <li>• Penetrates cracks and pores effectively</li> <li>• Suitable for vertical and horizontal use</li> <li>• Easy to apply</li> <li>• Can be coloured with decorative epoxy pastes</li> </ul>	<ul style="list-style-type: none"> <li>• Preparing raw and natural stones</li> <li>• Strengthens slabs effectively</li> <li>• Provides a glossy finish after sandblasting</li> <li>• Reinforces cut slabs and tiles</li> <li>• Fills small cracks and pores in natural stone surfaces</li> <li>• Waterproofs facades</li> <li>• Installs facade and antique stone on different surfaces like concrete and stone</li> <li>• Strengthens elevator floor stones</li> </ul>

### End users

- Stone and slab manufacturing industries
- Stone-building insulation companies
- Installers of various types of stone slabs
- Building contractors for parking stairs and other stone reinforcement projects



**Physical and functional characteristics**

	Top layer EP20	Top layer EP40 (clear)
<b>Nature</b>	<b>2 component epoxy</b>	<b>2 component epoxy</b>
<b>Color and appearance</b>	<b>Grey/liquid</b>	<b>Transparent/ liquid</b>
<b>Density (25°C) g/cm<sup>3</sup></b>	<b>1/9</b>	<b>1/1</b>
<b>Mass%</b>	<b>97%</b>	<b>100%</b>
<b>Mixing ratio</b>	<b>8% (100gr resin + 8gr hardener)</b>	<b>45% (100gr resin + 45gr hardener)</b>
<b>Pot life (25°C)</b>	<b>50</b>	<b>40</b>
<b>Surface drying</b>	<b>12 hours</b>	<b>12 hours</b>
<b>Implementation of the next layer</b>	<b>12-24 hours</b>	<b>12-24 hours</b>
<b>Final cure</b>	<b>7 days</b>	<b>7 days</b>
<b>Surface humidity during performance</b>	<b>&lt;4%</b>	<b>&lt;4%</b>
<b>Material temperature and ambient temperature during Performance</b>	<b>20-30°C</b>	<b>20-30°C</b>
<b>Applicable surfaces</b>	<b>All kinds of stones and slabs</b>	<b>All kinds of stones and slabs</b>

**Storage**

- Store in a dry place, away from direct sunlight, water, and rain
- Avoid storing the material at temperatures below 15°C
- Can be stored in its original sealed containers for 2 years 15-30°C
- Once opened and resealed for later use, the shelf life could vary depending on storage conditions
- Always check product quality before using after prolonged periods of storage. If unsure, please contact the company for advice

**Note**

Keeping the resin at or close to freezing temperatures for a long time can cause it to crystallise. If this occurs, gently heat the resin container to 50-60°C to restore it

**Warranty and after-sales support**

The performance of this product is guaranteed for 12 months from the date of purchase by the end user

**Safety considerations**

EP20 and EP40 are non-toxic, but it's advisable to wear gloves, safety glasses, and work clothes when handling it. While this material isn't classified as hazardous to health or the environment, if it encounters your skin or eyes, rinse it with water

**Health & Safety Advice**

Always provide good ventilation when applying. Wash off splashes of material with clean water, and wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures