
Technical Instruction Sheet

Properties:

BRITHTSTONE 24024B is a very fluid, two-component, based on epoxy technology with a modified amine hardener which is served to fill firmly closing cracks and larger pores. We recommend BRITHTSTONE ®24024G in the event of smaller pores and fissures. BRITHTSTONE ®24024B has the special properties as following:

- hardening relatively quickly
- highly penetrative properties on account of its low viscosity
- transparent and pale, i.e. also convenient for natural stone of light color
- solvent-free
- weather resistant
- excellent grinding and polishing properties
- increasing the firmness and improves the quality of natural stone surfaces
- increasing the yield and the productivity

Application areas:

BRITHTSTONE 24024B is mainly used in the stone-working industry for strengthening porous and fissured natural stone slabs, concrete and improving their surface qualities. In combination with spun glass fabrics it is also used for strengthening brittle natural stone slabs. The hardened product only shows a minimal tendency to yellow if exposed to ultraviolet light or to the warmth.

Instructions for use:

1. The stone slabs which are to be treated must be pre-calibrated according to their nominal thickness and must be clean and dry.
2. If the surface of the stone is pre-warmed (60° C to 70° C), the penetrative capacity of the product will be increased.
3. Three parts by weight of Component A are to be thoroughly mixed with one part by weight of Component B (e.g. 120 g and 40 g) until the mixture is free of streaks. Alternatively, three parts by volume of Component A are to be mixed with one parts by volume of Component B (e.g. 150 ml and 50 ml); BRITHTSTONE ® color pastes can be used for coloring if required (max. 5 %). Large amounts can be worked more easily with a dosing and mixing apparatus for BRITHTSTONE ® products.
4. The mixture remains workable for approx. 15 minutes at 25° C and is applied to the whole surface with a fine-toothed spreader; apply more than once in the event of larger fissures or areas of greater absorption.
5. The surfaces can be ground and polished after approx. 24 hours at room temperature. Pre-warmed natural stone slabs can be polished and ground after approx. 3 hours at 60° C and subsequent cooling.
6. The contact pressure of the grinding and polishing segments should be 1 to 1.5 bar at the most.
7. Tools can be cleaned with BRITGHTSTONE universal thinner.
8. Warmth accelerates and cold retards the hardening process.
9. Empty the container fully before disposing of it.

Special notices:

- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess adhesive or hardener Has the effect of a plasticizer.
- The color of the treated surfaces may deepen to a greater or lesser extent depending upon the type of stone involved; a deepening of color may be more noticeable in the fissured area.
- When you are working with BRITHTSTONE 24024B you should use the liquid glove in order to protect your hands.
- When component A and B are being extracted from their containers you must use separate vessels.
- The resin is no longer to be used if it has already thickened or is jellying.
- The best surfaces can only be achieved by using high-quality grinding and polishing segments.
- The product is not to be used at temperatures under 15° C because it will not sufficiently harden.

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- The hardened resin can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperatures (> 200° C).
- If the resin has been correctly worked it presents no hazard to health when the hardening process is completed.

Technical specifications: Color: transparent, pale
Density: Component A: 1.14 g/cm³
Component B: 0.98 g/cm³
amounts required:

Working time:

a) at varying temperatures and 150 g: 25° C: 15 - 20 minutes
30° C: 12 - 15 minutes
40° C: 6 - 8 minutes

b) at 20° C and varying amounts: 25 g: 25 - 30 minutes
125 g: 20 - 25 minutes
1250 g: 15 - 20 minutes

hardening times for stone slabs which have been pre-warmed to the given temperatures:

20° C: 24 hours
30° C: 12 hours
40° C: 6 hours
50° C: 4 hours
60° C: 3 hours

Mechanical properties :

Bending strength: 65 – 70N/mm²
Tensile strength: 35 – 45N/mm²
E-module: 3200 – 3600N/mm²

6. Shelf life: approx. 6 months under cool conditions in the
Firmly closed original container.

Safety notices: Please refer to the safety data-sheet

Notice: The above specifications were made in accordance with the present-day stage in development and the application technology research of our firm. Because the ways and means of application are beyond our control, the manufacturer cannot be made liable for the contents of this specification sheet.