Technical Instruction Sheet

Properties:

AKEPOX® 1011 Super Black is a solvent-containing, extremely fluid, deep black coloured two-component epoxy resin system with a modified amine hardener which is used for filling very fine cracks and pores. The product has the following special properties:

- deep black colour, therefore very suitable for black or dark stones
- has highly penetrative properties on account of its low viscosity
- excellent grinding and polishing properties
- increases the firmness and improves the quality of natural stone surfaces
- increases the yield and the productivity

Application areas:

AKEPOX® 1011 Super Black is mainly used in the stone-working industry for strengthening porous and fissured natural stone slabs, concrete and concrete ashlar and improving their surface qualities. Due to the deep black colour very fine fissures and pores in black or dark stones are filled almost invisibly, additionally the colour of the stone is intensified.

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. Four parts of Component A are to be thoroughly mixed with one part of Component B (e.g. 100 g and 25 g by parts of volume or weight) until the mixture is free of streaks. Large amounts can be worked more easily with a dosing and mixing apparatus for AKEPOX® products.
3. The mixture remains workable for approx. 1-2 hours at 20° C and is applied to the whole surface with a fine-toothed spreader, brush or roller. In the event of areas of higher absorption, apply several times. Continuous cracks should be closed on the rear side before treatment.
4. The surfaces can be ground and polished after approx. 2 days at room temperature.
5. The contact pressure of the grinding and polishing segments should be 1 to 1.5 bar at the most.
6. Tools can be cleaned with AKEMI® Universal Dilution.
7. Warmth accelerates and cold retards the hardening process.
8. In order to ensure orderly disposal, the container must be emptied completely.

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 respectively can cause discolouration in the marginal zones.
- Strong UV-radiation can cause change of colour.
- When you are working with AKEPOX® 1011 you should use AKEMI® 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.
- 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).
- Do not allow contact with plastic products which are not resistant to solvents or cover objects which are not to be treated.
- If the resin has been correctly worked it presents no hazard to health when the hardening process is completed.

Technical specifications:

colour:	black				
density:	Component A:	0.99 g/cm³			
	Component B:	1.00 g/cm³			
amounts required:	approx. 100 - 200 g/m²				
working time:					
a) at varying temperatures and 125 g:	15° C:	2	-	4 hours	
	20° C:	1	-	2 hours	
	30° C:	0.5	-	1 hours	

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

20° C:	48	hours
30° C:	24	hours

Shelf life: approx. 1 year under cool conditions in the firmly closed original container.

Safety notices: Please refer to the EC 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.

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