Technical Instruction Sheet

Properties:

AKEMI BS 101 Repair Resin is a fast-hardening, liquid, two-component product on the basis of unsaturated polyester resins dissolved in styrene and a special adhesion promoter. The product is characterized by the following properties:

- flowable consistency, thus good perfusion
- fast hardening (30-40 minutes)
- very good adhesion, even to wood, stone and metals (iron, steel, aluminium) and at high temperatures (up to approx. 100° C)
- suitable for underfloor heating
- high mechanical strength
- resistant to water, petrol, mineral oils, diluted alkalies and acids.

Application areas:

AKEMI® BS 101 Repair Resin is used in industry and trades to close and friction-lock cracks and joints in screed flooring and concrete.

Instructions for use:

1. The surface it is to be applied to must be dry and free of dust, grease, oil and antitack agents.
   If necessary, widen the cracks or use special screed repair braces.
2. 1-4 g of hardener paste are to be added to 100 g of resin (1 g of hardener corresponds to a length of approximately 4 - 5 cm of hardener paste when squeezed out of the tube).
3. Mix both components together thoroughly until a homogeneous colour is attained. The mixture remains workable for 4-14 minutes (at 20° C).
4. Fill AKEMI BS 101 Repair Resin into the cracks or joints in the screed flooring and level/smooth it off with a spatula. In order to improve the adhesion of further chemical building products on top of it (adhesives or levelling layers), dry silicious sand can be sprinkled on the surface of the resin before it hardens.
5. Further processing (application of adhesives or levelling layers) can take place after 60 minutes at the earliest.
6. Warmth accelerates and the cold delays hardening.
7. Tools can be cleaned with AKEMI Nitro-Dilution before the resin has hardened.

Special notices:

- In the event of larger cracks or joints, use BS 102 Repair Filler.
- To increase the strength of the connection, we recommend the use of special screed repair braces.
- Use AKEMI® “Liquid Glove” to protect your hands.
- If more than 4 % hardener is used, the quality of the bonding will be reduced.
- If less than 1 % hardener is used or temperatures are low (under 5° C), hardening will be delayed considerably.
- Resin which has already thickened or is in the process of jellifying should not be used.
- Metallic surfaces should be abraded and glued as soon as possible afterwards in order to avoid reduced adhesion.
- Bondings which are often exposed to damp and/or frost are only resistant up to a point.
- Resin which has already hardened can no longer be removed with solvents: This can only be achieved mechanically or by means of high temperatures (> 200° C).
- The hardened adhesive is not detrimental to health if the product is used properly.

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Safety notices: Please refer to the EC safety data sheet.

Technical specifications:

colour:	grey
density:	approx. 1.36 g/cm³
viscosity:	1800-2000 mPas

working time/min:

a) at 20° C

1 % hardener	14 -16
2 % hardener	7 – 9
3 % hardener	5 – 6
4 % hardener	4 – 5

b) using 2 % hardener

at 10° C	12 -14
at 20° C	7 – 9
at 30° C	3 – 4

can be walked on:	after 30-40 minutes
can bear a load:	after approx. 1 hour

container size: 1000 g

The amounts required depend on the width and depth of the cracks or joints.

shelf life:	can be stored for approx. 1 year in the closed original container under cool and frost-free condition.

Notice: The above specifications were made on the basis of the present-day stage of technological development and the application research of our company. 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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