

DESCRIPTION

Propoxy 3K is a three-component product based on a solvent free epoxy resin system and incorporating graded inert fillers, to provide maximum workability, adhesion and chemical resistance. It is available in a range of standard colors and special colors subject to minimum order quantity. Especially designed for use at indoor and outdoor grouting with glass mosaic, porcelain tiles, natural stones floors and walls, and any other building materials on all types of substrates normally used in construction.



APPLICATION AREAS

Formulated as an impervious, high strength adhesive and grouting compound offering simple and easy application with good chemical resistance.

- Recommended for wall and floor tiling, where hygiene is of prime importance, particularly food processing, brewery and hospital applications.
- Propoxy 3K also offers excellent benefits in swimming and leisure pool situations, where traditional cement based formulations have consistently failed under attack from aggressive water. The fine texture of Propoxy 3K allows bedding thicknesses of 1.5mm on uniform surfaces thereby providing an economical fix and grout.
- Propoxy 3K has good resistance to commonly encountered dilute acids, alkalis, salts, oils and fats, but has limited resistance to solvents.
- Propoxy 3K is not designed for high temperature applications, but will more than adequately cope with temperatures normally met in open wall and floor locations.

FEATURES & BENEFITS

- Meets ANSI A118.3
- Excellent adhesion to GRP and GRC.
- Propoxy 3K is water wipeable, eliminating the need for cleaning solvents.
- Hygienic in service, will not support bacteria growth.
- Excellent handling characteristics ensuring easy application.
- Maximum chemical resistance.
- VOC free.

TECHNICAL INFORMATION

Compressive Strength	80.0 N/mm ²
Tensile Strength	11.2 N/mm ²
Flexural Strength	28.0 N/mm ²
Bond Strength (Wire Cut Bricks)	4.2 N/mm ²
Density at 20°C	1.8 GMS/CM ³
Water Absorption	0.2 %
Temperature Limit Dry	105°C
Temperature Limit Wet	65°C
Pot Life @ 10°C	90 minutes
Pot Life @ 20°C	60 minutes
Coverage	It varies depending on the width of the joints, the size and thickness of the tiles (use grout calculator)
Storage & Shelf Life	Store in cool dry conditions. Shelf life is 12 months minimum.
VOC Content	Nil

METHOD OF APPLICATION

SURFACE PREPARATION

For use as a grout

- Before grouting, make sure that the installation mortar or the adhesive has set and released most of its moisture.

- The joints must be dry, clean, free of dust and emptied at least 2/3 of the tile thickness.
- Clean the tile or stone surface to remove dust, dirt, mortar, adhesive and other contaminants that may cause grout discoloration

For use as an adhesive

All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent adhesion

MIXING

A suitable mechanical mixer should be used.

Pre-mix the complete pack of resin and hardener. Slowly add the filler to give the required handling properties for use as an adhesive, grout or mortar. Once mixed Propoxy 3K should be spread thinly on polythene sheeting to prevent heat buildup and extend pot life.

APPLICATION

As an adhesive

Spread the adhesive with a mosaic notched trowel and immediately press the mosaic firmly into place. Remove surplus adhesive from the face of tiles with clean water. Always make preliminary sample tests before grouting stone materials or smoothed porcelain.

As a grout

- Propoxy 3K should be applied directly to the joints using a palette knife or plastic spatula. Propoxy 3K may also be applied by cartridge gun or similar technique. Used for grout joints varying from 2mm – 12mm.
- Be certain that all joints are well compacted and free of voids/gaps. Fill the joints with the maximum amount of grout possible.
- Remove surplus material from the face of tiles/paviors immediately using a pre-damped fibril cleaning pad. Propoxy 3K is water wipeable

DO NOT ALLOW TO SET ON FACE OF TILES.

Working time for Propoxy 3K is approx. 45-50 minutes at 15-20°C. Mix only the material which can be used in this period. Installations using Propoxy 3K may be opened to foot traffic in approx. 8 hours at 18°C. Complete cure to obtain maximum chemical resistance is achieved at 5-7 days at 18°C.

DO NOT USE PROPOXY 3K BELOW 10°C.

PACKAGING

16 KG Unit

HEALTH & SAFETY PRECAUTIONS

Propoxy 3K is labelled in accordance with current legislation. Instructions on these labels should be strictly observed.

Propoxy 3K filler contains Ground Silica, operatives should wear a suitable dust mask. Propoxy 3K Resin has constituents classed as irritants and care should be taken in their use.

In the case of accidental eye contact wash with plenty amounts of clean water and immediately seek medical attention.

TECHNICAL SERVICE

Application of the PROPOXY 3K should be done according to the procedure mentioned in this technical data sheet. IKAN INC will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non- recommended purpose. Please contact IKAN INC. technical team for more details on application of PROPOXY 3K for any purpose other than mentioned above or on surfaces with other special construction additives.

DISCLAIMER

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labor involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.