

# UNEPOX SL AR 3K

## Epoxy Selflevelling Screed 3K

### UNEPOX SL AR 3K

Epoxy Selflevelling Screed 3K

#### Product characteristics

Three component polyamine cured acid resistant solvent free epoxy self levelling.

UNEPOX SL AR 3K is composed of 100% solids epoxy resin filled with a variety of graded quartz and silica that can be modified to create the best design mix for ideal performance. A wide selection of finish coats is available for varying exposure requirements.

#### Product use

This system comprises 100% solids epoxy and aggregates, resulting in a fluid, self-leveling mixture applicable using a V-notched squeegee or trowel. Ideal for both new construction projects and renovation work in areas demanding acid resistance.

#### Usage areas

Activity Centers,Aircraft Hangars, Airports Baggage/Service, Animal Areas Housing Cage Washing, Beverage Processing, Packaging/Warehousing, Bottling, Cafeterias Chemical Processing, Clean Rooms, Coolers, Correctional Facilities, Corridors, Decks/Ramps, Dairies, Distilleries, Packaging, Food Processing, Food Preparation and Service, Garages, Service, Laboratories, Laundries, Locker Rooms, Machine Shops Manufacturing, Mechanical Equipment Rooms, Pharmaceutical Plants, Pulp and Paper Processing Facilities, Showers, Utilities, Warehouses, Waste Water Treatment Facilities.

#### Product properties

UNEPOX SL AR 3K when cured, produces a dense, non-porous floor that is chemical and dirt resistant.

UNEPOX SL AR 3K is a seamless, low maintenance system exhibiting high wear and durability for light to medium traffic areas. UNEPOX SL AR 3K may be sealed with a top coat to further enhance abrasion resistance, gloss retention, and non-skid properties.

UNEPOX SL AR 3K is a broadcast system of selected aggregates. The slurry system is a seamless, low maintenance system exhibiting high wear, durability, and impact resistance for medium traffic areas. To fill in pores and secure the aggregate, a second epoxy coating is applied producing a textured, skid resistant floor.

#### Color Selection

UNEPOX SL AR 3K is available in a variety of RAL Colour Chart. Custom colors are available subject to laboratory approvals, minimum quantities, lead time for production, and increased cost. UNİCA' TECH SERVICE DEPARTMENT are ready to assist.

## UNEPOX SL AR 3K Epoxy Selflevelling Screed 3K

### Technical data

#### BASIC DATA (for mixed product at 20 C)

|                                |  |
|--------------------------------|--|
| Mass density                   | approx. 1,67 g/cm <sup>3</sup>   |
| Solids content                 | approx. 100 % by volume  |
| Touch after dry                | 4-6 hours  |
| Overcoating interval           | Min.24 hours Max.48 hours  |
| Full cure after                | 7 days   |
| Curing Time                    | 12-16 hours after application of seal coat for light traffic<br>24-36 hours after application of seal coat for heavy traffic.<br>7 days after application for acidic media |
| Physical Data                  |  |
| Linear Thermal Expansion       | 18-30.10E6/ C  |
| Electrical Conductivity        | ~10 <sup>12</sup> Ohm  |
| Thermal Conduction coefficient | ~0.3 kcal/mh C   |
| Corrosion resistance           | ~6 cm <sup>3</sup> /50 cm <sup>3</sup>   |
| Tensile Strength               | 37 N/mm <sup>2</sup>   |
| Compression Strength           | 72 N/ mm <sup>2</sup>  |
| Theoretical spreading rate     | 1m <sup>2</sup> / 3,4 kg for 2 mm average dry coating thickness  |

### Mixing Procedure

- Mixing Ratio :by weight base to hardener and extended: 50:15:35
- Stir each component prior to mixing.
- Mix two (50) parts by weight of Part A (Base) with one (15) part by weight of Part B (Hardener) for three minutes with a low speed electric mixer (200-300 rpm ).Then add C component ( quartz) agrega to this mixing A+B.
- Mix only that amount of material that can be used in 30-40 minutes. Note: Use a slow speed drill to mix UNEPOX SL 3K.

### Surface Preparation

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared. Work must be performed by trained or experienced contractors or maintenance personnel. The UNICA service department is pleased to answer any questions. Specific attention should be paid to the following:

- Concrete placement
- Curing and finishing techniques of the concrete substrate
- Age of concrete
- Previous contamination of the substrate
- Present condition of the substrate

Also, the temperature and humidity conditions of the area to receive the flooring system should be checked. An optimum room temperature of 20 °C with a minimum slab temperature of 10 °C is required for proper cure of the resin flooring system.

## UNEPOX SL AR 3K

### Epoxy Selflevelling Screed 3K

#### Considerations:

Substrate must be above 10 °C during application.

Substrate must be free of hydrostatic pressure, moisture transmission, paint, curing agents, and other foreign materials.

#### Application Procedure

UNICA recommends that every flooring system be installed with a suitable primer to insure maximum adhesion to the prepared substrate. Priming will also help to seal air in the concrete and prevent outgassing and air bubbling in the finished system. See the UNEPOX Primer/Unepox Primer 128-05 TDS for more installation procedure.

- Immediately pour portion of mixed material onto floor in a strip and spread at a rate of 6-7 m<sup>2</sup> per 25 kg mixing. apply as a flow coat with a conventional cement finishing trowel. Trowel or spread material in one direction only to achieve a smooth flow coat of material approximately 2 or 3 mm thick.

Note: Termination points at the end of the day should be made at doorways, expansion joints, etc. If it is not possible to terminate at these points, 5 cm masking tape should be placed in a straight line at the ending point. Carefully trowel the material up to and slightly over the inside edge of the tape. Allow material to cure for about thirty (30) minutes and remove the tape.

- Do not back roll or use a spiky roller.
- Allow floor to cure minimum 48 hours for ideal acid resisting.

#### Note

**Prolonged exposure to acidic environments may cause fading or discoloration of the surface over time. However, this does not affect the product performance.**

#### Packaging

A Components 12,5 kg in metal cans, B Components 3,750 kg in metal cans, Quartz filler 8,750 kg in pp bags.

#### Storage

The product is stored in sealed containers placed at indoor dry warehousing premises within the temperature range from 10°C to 35°C. Shelf life (warranty) is 12 months from the production date in cool and dry place

# UNEPOX SL AR 3K

## Epoxy Selflevelling Screed 3K

**Clean-Up:**

All tools and equipment should be cleaned before materials gel. Use Xylene solvent.

**Safety-related data**

- A Component contains epoxy resin.
- B Component contains alkaline amines; strong sensitizer.
- May cause skin sensitization or other allergic responses.
- Use with good ventilation, particularly if material is heated or sprayed.
- Prevent all contact with eyes or skin.
- Wear protective clothing, goggles, gloves, and/or barrier creams.
- Keep container closed when not in use.
- Wash thoroughly after handling.

**Note**

The statements made on this technical sheet are believed to be true and accurate, and are intended to provide a guide for approved construction practices. UNİCA does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. UNİCA warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNİCA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNİCA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.