

K2 JAPOXY SCREED

Three Parts Epoxy Repair Mortar & Floor Screed

Description:

K2 JAPOXY SCREED is a three component solvent free epoxy mortar composed of epoxy resin, amine hardener, select graded aggregates & additives. It is used for repair & lining system of concrete floors and structures because it provides strong & long lasting adhesion to parent substrate. It possesses high compressive, tensile & flexural strength coupled with excellent water resistance & chemical resistance.

Area of Application:

- Repairs of industrial concrete floors, runways.
- Repairs to spalled columns, soffits, gutters, lintels etc.
- Used to repair damaged concrete, pipes and precast units, as a bedding mortar for tiles on

uneven floors or under corrosive conditions.

- Watertight repairs and structural, sealing of cracks, holes, honeycomb and rigid joints.
- Waterproof and abrasion resistant lining for tanks, channels, sump, and basement.

Benefits:

- Excellent load bearing capacity, impact & abrasion resistance accompanied by high bonding strength protects the substrate.
- Good anti-skid properties to both vehicular and pedestrian traffic.
- Excellent resistance to a wide range of chemicals.
- Easily applied as a universal repair mortar in all industries.
- Improve overall strength of the concrete.
- Level up the undulation of concrete.

Technical Properties:

Properties	Results
Appearance- Mix consistency	Trowel able material
Screed Bed thickness	2mm to 15mm
Application Temperature	10 °C – 40 °C
Induction time	5 mins
Density	1.84 Gms/cc
Mixing Ratio	Aggregate :: Base :: Hardener 83 :: 11.35 :: 5.65
Pot Life at 30 °C	25-30 mins
Surface dry	2 Hrs.
Dry to walk for light traffic/ Hard dry	12 Hrs.
Heavy traffic	2 days.
Full Cure	7 days.
Compressive Strength in 7 days	60 N/mm ²
Pull off bond strength	Concrete failure
Shore D hardness	24 hrs. 71
ASTM-D-2240	7 days. 85

Application Instruction:

SURFACE PREPARATION

- New concrete should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy primer application. Laitance, deposits and all contamination viz, oil, grease etc. on new concrete floors are preferably removed by light grit/ shot blasting, mechanical scarifying or grinding to achieve an open textured surface.
- In old concrete hydrophobic and bond-inhibiting contaminants (like oils, grease, wax, and fatty acids) can be identified by a simple water drop test. Cleaning can be accomplished by the use of detergent scrubbing, low pressure water cleaning (less than 5000 psi), steam cleaning or chemical cleaning. Remove localized weak or deteriorated materials from the surface by light grit/ shot blasting, mechanical scarifying or grinding.
- All dust present, produced after surface preparation must be removed by vacuum pump prior to primer application.

PRIME APPLICATION

- Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes.
- Application of K2 JAPOXY PRIMER should be exercised by any of the suitable and convenient method like brush/ roller/ flat trowel so that it thoroughly wets the surface.
- A Screeding should be done before primer loses tack.

MIXING PROCESS

- K2 JAPOXY SCREED is supplied with 3 pre-weighted packs (Base, Hardener and aggregate) which are ready for immediate on site use. Mix the hardener into the base under continuous stirring as per standard pack size by using a mechanical stirrer until homogenous. Add aggregates into this mixed liq. resin under continuous stirring.
- The speed can be increased to advance the resistance during aggregate mixing. Mix well for 3-4 minutes till a homogenous & uniform

paste consistency is obtained.

- Apply after induction time and before expiration of pot life

APPLICATION PROCESS

Repairing Method

- Pour the entire mixed screed material and spread uniformly onto the still tacky primed surface using a suitable trowel. K2 JAPOXY SCREED mortar should be applied in successive layers not exceeding 15 mm by tamping and trowelling in order to ensure full compactness. Finally the mortar should be shaped to the desired profile and finish the surface with steel trowel.

Screeding Method

- Pour the entire mixed screed material and spread uniformly onto the tacky primed surface using a suitable trowel to get the required screed thickness. Tamp the laid material with a wooden float to ensure compactness and consolidation. Finally finish the surface with steel trowel. Do not rub steel trowel more, which may lead to burn marks.

Precautions:

- Do not mix external fillers.
- Use the mixed material within the pot life time.
- For best results clean the surface properly.
- Do not use any solvent for reducing consistency.
- Relative air humidity (RH) to not exceed beyond 80%.

Maintenance:

- It is important that good housekeeping standards are established and maintained appropriately for the type of resin flooring. Generally a mechanical scrubber with wet vacuum is the most suitable. Washing with mop and bucket is not recommended.
- In the event of the spillage of corrosive materials where hygiene levels are required to be high, e.g. in food preparation areas, a bactericide solution should be used, and pressure washing at a temperature of 60 - 80°C

is advisable.

- In the event of the spillage of corrosive chemicals, the surface should be cleaned as soon as possible. If this is not done repairs to the floor may be needed to prevent the damage from spreading. Any mechanical damage to the floor surface should also be repaired at the earliest event to prevent liquids penetrating to the bond line and causing lateral failure.

Coverage:

8.5 Kg/sq.mtr @ 4.5mm DFT.

The coverage would vary significantly based on the nature of the concrete surface.

Packing:

- K2 JAPOXY SCREED is available in 8.5 kg Pack.
- Pack Contains: Part A – Base (0.965 kg) & Part –B Hardener – (0.480 kg) Part C - Aggregate (7.055 kg).

Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

Shelf Life and Storage:

K2 JAPOXY SCREED has a Shelf life of 12 months if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 5°C to 35°C, subject to inspection thereafter. Store in a cool, dry place and in accordance with local regulations.

Health & safety:

It is strictly recommended to wear protective clothing's, safety shoes, dust mask and gloves during the application of the material and when cleaning the equipment's. The use of a suitable skin care cream is recommended. In case of contact with the skin wash with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice immediately.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.