Alka 100

2-part general purpose epoxy primer/binder

| Introduction

Alka 100 is a general purpose, two components, 100% solid, epoxy system that can be used as a primer, coating or as a binder for pigmented slurry/broadcast system or epoxy mortar.

Epoxy binders are versatile materials widely used in various industries, including construction, electronics, aerospace, and automotive sectors. These binders consist of epoxy resin, a thermosetting polymer, and a curing agent, which undergo a chemical reaction to form a cross-linked network, resulting in a durable and highly adhesive material.

In construction, epoxy binders are commonly employed as adhesives for bonding materials such as concrete, metal, and wood. They enhance structural integrity, improve load-bearing capacity, and provide resistance to environmental factors like moisture, chemicals, and temperature fluctuations. Epoxy binders are also utilized in flooring systems, where they create seamless, durable surfaces ideal for industrial and commercial settings.

| Where it could be used.

As a primer, penetrating sealer and bonding agent on Concrete and mortar stone, Cement renderings, asbestos cement, timber, sub-fill for floor levelling, coving, as a bonding agent for: Epoxy mortar screeds, epoxy self-levelling floor toppings, mortar screeds and even for impregnating and sealing cement-based floorings in warehouses and stores, warehouses and stores, garages, boiler rooms and corridors.

| Benefits

- Low VOC,
- Suitable for use on dry and damp substrates,
- Low viscosity, Excellent penetration and adhesion,
- Excellent bond strength,
- Easy application/Can be applied by brush or roller,
- Multi-purpose use,
- 100 % solids as supplied,
- Protects new concrete from abuse,
- Rejuvenates worn surfaces, to a smooth finish,
- Designed to take heavy loads,
- Available in bulk quantities,
- Good mechanical resistance,
- Good chemical resistance,
- Short waiting times before subsequent coatings.

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| How to Apply

Surface Preparation

- **Clean the Floor:** Thoroughly clean the floor to remove dirt, grease, oil, or any other contaminants. Use a degreaser or detergent for areas with oil or grease stains.
- **Repair Cracks and Holes:** Use a concrete patching material to fill in any cracks, holes, or imperfections. Allow it to fully dry before proceeding.
- **Grind or shot blast the Floor:** If the floor is smooth, you'll need to roughen it using a floor grinder or shot blaster. This helps the epoxy bond better to the concrete. Clean the dust afterward with a vacuum or broom.
- **Test for Moisture:** Check for moisture levels in the concrete by taping plastic sheets to the floor for 24 hours. If moisture builds up underneath, the floor may not be suitable for epoxy application.

Mix Component B and component A in a clean and dry container to the specified ratio. Mix with an electric stirrer for at least 3 minutes. Alka 100 is a versatile product and can be applied by brush, roller or spray. The recommended coating thickness is approximately 0.2mm -0.3 mm per coat.

After application and for the cleaning process, Xylene can be used for cleaning tools and equipment before the mixed compound begins to harden. Once cured, it must be removed mechanically.

| Important Notes

- Do not add any water.
- Do not apply Alka 100 on any substrates where significant vapor pressure may occur.
- Always ensure good ventilation when using Alka 100 in a confined space.
- Freshly applied Alka100 should be protected from damp, condensation and water for at least 24 hours.
- If in doubt about the use or application of this product, or further information please contact our Alka Technical Department.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- Avoid contact with foodstuffs and utensils.

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A full Material Safety Data Sheet is available from Alka on request.

Technical and Physical Data

Form	Component A Component B Transparent when applied.	transparent, liquid brownish, liquid
Density (at 20°C)	Comp A + B: 1.05 ± 0.05 kg/litre	
Mix Ratio	Comp A : B = 1:1 by weight (or by volume)	
Pot Life (at 20°C)	Approximately **25 minutes**	
Application Temperature(ambient & substrate)	Minimum substrate temperature: +8°C Maximum substrate temperature: + 30°C Maximum relative humidity: ~ 80%	
Cure times	Touch Dry: Light traffic: Full cure:	8 Hours @ 20°C approx. 3 Days @ 20°C approx. 7 days @ 20°C approx.
Substrate MoistureContent	Maximum of 12% by weight or ≤ 80% relative humidity.	
Storage	Minimum of 12 months in unopened containers when stored free from frost in dry conditions between 10°C and 50°C. Component B is classed as non- hazardous for transportation.	
Packaging	Pre-proportioned units (A+B) in 30kg.	

All products are subject to Alka terms and conditions. Read the full version on our website prior to any purchase.

| Contact us

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