



PRODUCT DESCRIPTION

Two component, epoxy based, transparent impregnation primer developed for use on concrete and plastered surfaces.

AREAS OF USE

INKA-EPOPRIME/sf is used as an epoxy coating system impregnation primer on structural surfaces like concrete and/or cementitious plasters to act as an adherence bridge before the final epoxy coating; to bind the loose particles, dust etc. into its texture and to increase the mechanical strength of the surface by penetrating into the capillaries.

ADVANTAGES

- Does not contain pigments.
- Strengthens the surface by easily penetrating and filling capillaries.
- Penetrates into the substrate throughout the capillaries preventing the negative effects by making the concrete surface watertight, stopping humidity, ensuring a new/durable surface for the topcoat applications.
- Ensures a hard, glossy and slippery surface.
- Seals surface preventing water, fuel and oil permeability.
- Ensures safe use in places with poor ventilation thanks to its solvent free structure.

TECHNICAL DATA

- **Color:** Transparent.
- **Unit Weight of Mixture:** $1,10 \pm 0,1$ kg/lt (@ 20°C) DIN 53757
- **Solid Content of Mixture:** 99% ± 1 by weight DIN 53216
- **Viscosity of Mixture:** Semifluid @ 20°C DIN 53211
- **Mixing Ratio of Components:**
2 units of Comp. A (by weight) Epoxy Resin
1 unit of Comp. B (by weight) Hardener
- **Packaging:** Components A + B 18 kg set
Component A 12 kg (Resin)
Component B 6 kg (Hardener)
- **Dilution:** Should not be diluted with solvents. (must be used @ packaging viscosity)
- **Storage:** 1 year for Comp. A (epoxy resin) and 6 months for Comp. B (hardener) when stored in a dry and closed area between 5°C - 35°C in airtight packages.
- **Pot Life:** 30 mins. - 1 hour @ 20°C.
Pot life decreases significantly when mixed in large volumes and/or when ambient temperature increases therefore it is recommended not to prepare more than the amount needed.
- **Dry Time:** (depending on the application thickness, surface condition and relative humidity)
Surface dry-out: (tack free time) 6 - 10 hours (@20°C)
Setting: 24 - 48 hours (@ 15°C and above)
18 - 24 hours (@ 20°C and above)
- **Curing Time:** 7 days (@20°C). During this period the coating should be protected from chemical and physical impacts.

- **Waiting Time Between Layers:** Second coat should not be applied when the max. waiting time of 10 - 30 min. (depending on the ambient temperature) is exceeded. The first coat should be fully dry before the application of the second coat. Final top coat can be applied after 24 hours. If this period is exceeded, the primer coat should be sanded before the application of the final top coat for better adherence.
- **Chemical Resistance:**
By penetrating into the porosities of concrete surface, it fills all the cavities, sealing the substrate to outside attacks therefore increasing the physical strength and chemical resistance properties of the concrete. The cured product is resistant against various petroleum derivatives and has high resistance against alkalies. It is fully resistant to sanitizers, cleaning agents; mineral oils and animal fats; & salt water.

APPLICATION

Surface Preparation:

New concrete surfaces and cementitious plasters must be cured for at least 28 days. It should be dry, free from loosely adhering particles, laitance and grease. All particles must be vacuumed from the surface before application. Sand blasting must also be made if needed.

Old concrete surfaces, cementitious plasters and all other similar surfaces should be dry, free from loosely adhering particles, laitance, grease, paint and should be cleaned with a light sand blasting process if possible or by scraping or brushing.

Before the primer application, the substrate should be fully dry. The repair jobs on the application area should be done with epoxy based repair mortars 24 hours after the primer application.

Product Preparation: The resin Comp.A is mixed with a slow speed compulsory mixer thoroughly. Comp.B is then added and should be mixed for 3 minutes. (@ 200 - 250 rpm) Excessive amounts should not be prepared considering the pot life of the product. Best performance will be achieved with a thoroughly mixed product!

For better penetration into the substrate, it is recommended that a thin single coat should be applied @ 80 - 100 micron thickness. Up to 5% of special thinner can be used in the mix to make the application easier. This addition however will slightly prolong the setting period.

Application: Application should be made with a bristle brush or a roller until a thin layer of evenly distributed glossy surface is obtained at a single coat. Multiple layer applications should be made just after the previous layers surface becomes tack-free. If a period of 10 to 30 minutes is exceeded after the application of the first coat, corrections should only be made with a spiked roller.

CONSUMPTION / COVERAGE

Depending on the surface condition; with 1 litre of ready mixed product, ~ 2 - 3 m² of space can be coated. Average consumption is around 350 - 500 gr/m² in a single coat @ 120 - 200 micron dry film thickness. (excluding the waste/ losses)



ATTENTION

- The substrate's inclination angle should not be too much.
- The product should be prepared in small mixes to prevent accidental curing, therefore wastes.
- Surface temperature must be above +10°C and ambient temperature must be inbetween 15 - 30°C.
- It should not be used where environmental temperature is below +5°C and relative humidity is below 70%.
- The primer should be protected from chemical and physical impacts during the 7 day curing process.
- Product should be kept away from frost!
- Special thinner can be used for cleaning.

RISK DEFINITIONS & SECURITY RECOMMENDATIONS

- R11 Highly flammable.
 - R20/21/22 Hazardous when inhaled, swallowed or comes in contact with eyes and skin.
 - R34 Causes burns.
 - R36/38 Irritating to eyes and skin.
 - R43 May cause sensitisation by skin contact.
 - S1/S2 Keep locked up and out of the reach of children.
 - S16 Keep away from sources of ignition - No smoking.
 - S20/S21 When using do not eat or drink & do not smoke.
 - S24/25 Avoid contact with skin and eyes.
 - S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S38 In case of insufficient ventilation wear suitable respiratory equipment.
- Hazard symbol: H2, Xn

TECHNICAL SERVICES

Our technical support team is ready to answer all your questions concerning our product line.

For additional information, please contact our headquarters.

Material Safety Data Sheet of this product can be obtained from info@inka.com or from our regional sales representatives.