EPOSELF/100

Epoxy Based, Solvent Free Self-Leveling Compound

PRODUCT DESCRIPTION

İNKA-EPOSELF/100 is a two component, solvent free, epoxy based self-leveling top coat resistant to chemicals, providing a glossy/smooth & hygienic non-dusting surface.

AREAS OF USE

İNKA-EPOSELF/100 is used on structural concrete surfaces such as;

- Beverage manufacturing plants,
- Food production plants where hygienic environments are of great importance,
- Storage areas, workspaces, parking areas,
- Electronic manufacturing plants,
- Aircraft hangars,
- Automotive manufacturing plants,
- Textile production plants,
- TV studios etc.,

providing protection against industrial grade chemicals, increasing mechanical endurance.

ADVANTAGES

- Non-shrink,
- Provides perfect adherence when fully cured,
- Solvent free,
- Odour-free; safe to use in places with poor ventilation
- Provides practical and rapid application,
- Provides an almost stainproof surface; easy to clean thanks to its glossy texture,
- Harmless when fully cured,
- Long pot life makes it easy to apply on large spaces,
- Ensures resistance to abrasion,
- Ensures resistance to a broad spectrum of corrosive chemicals and solvent exposure,

TECHNICAL DATA

- **Color:** White, Grey, Blue, Green, Oxide red
- **Unit Weight of Mixture:** 1,75 ± 0,05 kg/lt (@ 20°C)
- **Packaging:** Components A + B + C 25 kg set
  Component A 9 kg (Resin)
  Component B 3 kg (Hardener)
  Component C 13 kg (Silica)
- **Storage:** 1 year in a dry and closed area, stored between 5°C to 35°C in airtight packages.
- **Pot Life:** ~30 - 45 minutes @ 20°C
  Pot life decreases significantly when mixed in large volumes and/or when ambient temperature increases.
- **Waiting Time Between Layers:** min. 12, max. 24 hours @20°C. If this period is exceeded, surface should be sanded before the application of the second coat.
- **Dry Time:**
  Surface dry-out: (tack free time) 3,5 - 4 hours (@20°C)
  Pedestrian Traffic: not before 48 - 72 hours
  Curing time: Depending on the application thickness 5 - 7 days (@20°C)
- **Ambient Temperature During Application:**
  Surface temperature must be above +10°C and ambient temperature must be inbetween 15 - 30°C. Rerelative humidity must be below 70%.
- **Chemical Resistance:**
  When coated with appropriate final epoxy layer: resistant against diluted acids, diluted and concentrated alkalis, detergents, disinfectants, mineral oils, animal fats, salt water and solvents like diesel, gasoline, alcohol etc.

APPLICATION

Surface Preparation

New concrete surfaces and cementitious plasters must be cured for at least 28 days. Surfaces should be dry, free from loosly 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 and cementitious plasters should be dry, free from loosly adhering particles, laitance, grease, paint and should be cleaned with a light sand blasting process if possible or by scraping or brushing. Grease and lubricant contaminated surfaces must be cleaned with water/detergents and washed with solvent if necessary. Before applying the primer, the surface must be fully dry. The surfaces which need to be repaired should be applied with an epoxy based repair mortar/putty within 24 hours following the application of the primer. For perfect adherence of **EPOSELF/100** and the primer, the surface should be in an excellent mechanical state.

Product Preparation: 3 kg of hardener Comp.B is added into 9 kg of resin Comp. B while mixing continuously with a slow speed drill @ 300 rpm for a period of 2 - 3 minutes until the mix becomes homogeneous. 13 kg of silica Comp. C is then added slowly into the mix @ 200 - 250 rpm in order to prevent excessive air being entrained into the mix.
Excessive amounts should not be prepared considering the pot life of the product.
The packaging of component A is sufficient enough to take up all the components inside for the mixing process.

Application: The prepared surface should be primed with **İNKA-EPOPRIME/sf** (solvent-free) or **İNKA-EPOPRIME/c** (solvent containing) primer. In order to have a homogeneous film layer, application of the primer should be made with a roller or a flat-back steel trowel. Ponding should be avoided. Porous surfaces may need a second coat. Before the application of **İNKA-EPOSELF/100**, the primer should be cured.

The capillary and the small cavities on surface should be filled with **İNKA-EPOREPAIR/adh** (repair putty) and larger cavities should be filled with **İNKA-EPOGROUT/st2** (grouting mortar) and leveled.

The ready to use **İNKA-EPOSELF/100** should be poured onto the primed surfaces right after the mixing process is completed and should be spreaded throughout the surface with a notched trowel to achieve the desired thickness.

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Following the trowelling process, in order to get rid of the air bubbles trapped inside and eliminate the trowel traces, a spiked roller should be sweeped throughout the surface for 10 minutes.

Whole application process (from the mixing of the components throughout the spiked roller sweeping) should be finished in 40 to 50 minutes.

CONSUMPTION / COVERAGE

Depending on the surface condition; an application for:
a thickness of 1 mm: **1,70 - 1,90 kg/m².**
a thickness of 2 mm: **3,40 - 3,80 kg/m²**
a thickness of 3 mm: **5,10 - 5,70 kg/m²**

ATTENTION

- For cases where the minimum waiting time inbetween layers is to be exceeded, sanding should be made on the first layer in order to ensure adhesion between layers.
- Ideal working temperature is 20°C. Application should not be made where ambient temperature is below +8°C and relative humidity is above 70%.
- Surface temperature must be 3°C higher than the dew point.
- The product should be protected from chemical and physical impacts during the 7 day curing process.
- Adequate ventilation should be provided for closed spaces.
- 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 childiren.
- 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 advise.
- 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.