

# EPOCOAT/wb

## Epoxy Resin / Water Based Top Coat



İNKA.3.03.TB.142 30/12/2015/01



### PRODUCT DESCRIPTION

**İNKA-EPOCOAT/wb** is a two component, organic solvent free, water miscible, epoxy based protective top coat.

### AREAS OF USE

**İNKA-EPOCOAT/wb** is used to protect metal, concrete and wooden surfaces against the atmospheric, chemical and physical impacts without the unpleasant odour such as solvent at areas such as schools and hospitals. It can also be used in;

- Food manufacturing plants & pharmaceutical product manufacturing plants,
- Swimming pools,
- Water reservoirs,
- Living areas,
- As a decorative/hygienic topcoat at areas which are either in continuous water contact or permanently humid.

### ADVANTAGES

- Easily applied on newly laid hardened concrete surfaces and on humid surfaces,
- Solvent free,
- Odour-free; safe to use in places with poor ventilation
- Provides easy to clean hygienic surfaces,
- Harmless when fully cured,
- Ensures resistance to conventional cleaning agents and alkalies.

### TECHNICAL DATA

- **Color:** Optional
- **Unit Weight of Mixture:**  $1,30 \pm 0,1$  kg/lt (@ 20°C) DIN 53757
- **Solid Content of Mixture:**  $75\% \pm 5$  by weight DIN 53216
- **Viscosity of Mixture:** Semifluid @ 20°C DIN 53211
- **Mixing Ratio of Components:**  
6 units of Comp. A (by weight) Epoxy Resin  
1 unit of Comp. B (by weight) Hardener
- **Packaging:** Components A + B 21 kg set  
Component A 18 kg (Resin)  
Component B 3 kg (Hardener)
- **Dilution:** Water miscible up to a max. of 15%.  
**Hardener should not be diluted with water!**
- **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:** 4 - 6 hours @ 20°C. Less than 100 minutes @ 30°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) 4 - 8 hours (@20°C)  
Setting: 18 - 24 hours (@ 15°C and above)
- **Curing Time:** 7 days (@20°C). During this period the coating should be protected from chemical and physical impacts.

### • Ambient Temperature During Application:

Surface temperature must be above +10°C and ambient temperature must be inbetween 15 - 30°C. Relative humidity must be above 70%. The application area should be well ventilated in order to allow the water inside the mix to evaporate.

- **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.

### • Chemical Resistance:

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. It should not be used in environments where organic mineral acid resistance is needed.

### APPLICATION

#### Surface Preparation

**Steel surfaces** should be free from all loose particles like rust, dirt, grease etc, and should be sand blasted up to the Sa 2,5 standards. The surface should be primed within the 4 hours of sanding process. The coating should not be delayed to the next day and if delaying is inevitable, sanding process must be repeated prior to the application.

**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 and cementitious plasters** 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.

**Product Preparation:** The resin Comp.A is mixed with a slow speed compulsory mixer thoroughly. Component A can be diluted with water up to 15%. Comp.B is then added and should be mixed for 3 minutes. (@ 300 rpm) Excessive amounts should not be prepared considering the pot life of the product.

**Application:** Application should be made with a brush or a roller. The brush/roller movement should always be made towards the same direction. To prevent yielding on vertical surfaces, the product should be applied in thin layers.

In order to achieve a homogeneous surface color, the product should be applied and evenly distributed throughout the surface and sufficient ventilation should be allowed for drying.

### CONSUMPTION

3 to 5 m<sup>2</sup> area can be painted with 1 litre product @ 100 - 150 micron dry film thickness.

Depending on the surface condition and the application method, average consumption should be calculated at 350 - 450 gr/m<sup>2</sup> for a single coat. (excluding losses/wastes)

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## ATTENTION

- Sufficient ventilation must be provided as insufficient ventilation will dramatically prolong the drying period which may result in color inequalities throughout the surface.
- The drying period will also be prolonged according to the amount of water used in dilution. (more water = longer drying period)
- Application area should not be opened to traffic before 3 to 7 days @ 20°C. This period shortens if the ambient temperature is higher.
- Minimum time needed for mechanical strength gain is 1 day. The substrate gains chemical resistance after 7 days.
- The product is antibacterial and anti-fungal.
- 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 film coat should be protected from chemical and physical impacts during the 7 day curing process.
- The product should be protected from freezing temperatures!
- Tools can be cleaned with water after application. The cured product can be removed mechanically.

## RISK DEFINITIONS & SECURITY RECOMMENDATIONS

- R20/21/22 Hazardous when inhaled, swallowed or comes in contact with eyes and skin.
- 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.
- S20/S21 When using do not eat or drink & do not smoke.
- S24/S25 Avoid contact with skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 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](mailto:info@inka.com) or from our regional sales representatives.