



PRODUCT DESCRIPTION

İNKA-CR is a ready to use, single component, acrylic resin based, protective coating and curing compound for concrete surfaces.

AREAS OF USE

İNKA-CR is applied onto newly laid concrete surfaces just after the surface water has evaporated. Penetrating into the substrate forming a thin film layer, **İNKA-CR** prevents surface dusting improving the substrate's abrasion resistance while making it waterproof.

İNKA-CR is especially used in concrete pours on large areas to get the best surface quality possible. Some areas of use are:

- Concrete highways,
- Dams,
- Runways, taxiways, aprons and hard standings,
- Flat roofs, retaining walls, prestressed beams, piers,
- Floor hardener applications etc.

The product is best applied by spraying. With this method, around 96% of mixing water will be retained in fresh concrete allowing it to cure properly while promoting its physical properties.

ADVANTAGES

- Improves substrate's bonding properties providing additional applications like screeds and paints better adhere to the substrate.
- Gives a semi-matt appearance to the surface,
- Impregnates surface making it watertight.
- Increased surface tension will stop crack formation making the concrete watertight, prolonging its durability and service life.
- Helps cement particles better hydrate with water by preventing premature water loss; providing up to 20% more compressive strength when compared to reference concrete, giving it extra durability.
- Ensures a homogenous surface colour after curing thanks to its uniform chemical composition.
- Reduces surface dusting.
- Increases abrasion resistance on surface.
- Increases frost resistance of concrete.
(resistance to freeze-thaw cycles)
- Provides easy application.
- Eliminates the need for expensive methods like mass-watering.
(which can also deteriorate concrete surface quality)
- Ensures top performance when used on large areas.

TECHNICAL DATA

- **Appearance:** Milky white liquid
- **Specific Gravity (@20°C):** 1,03 ± 0,02 kg/lt
- **pH:** 7,0 - 9,0
- **Drying Time:** 90 minutes @ 23°C (200 gr per m²)
115 minutes @ 23°C (250 gr per m²)
- **VOC amount:** does not contain VOC

- **Storage:** 12 months when kept unopened and away from freezing temperatures and direct sunlight. (in between +5°C to +35°C) **
- **Packaging:** 30 kg PE bins and 200 kg steel/PE barrels
- **Public Works Pos.No:** 04.613/ 1 F
- **Standart:** Complies with ASTM C309 - 11 Type 2

APPLICATION

A thin layer of **İNKA-CR** should be sprayed evenly onto the freshly placed concrete by a hand operated spray gun immediately after the surface water disappears. (30 minutes to 2 hours depending on the ambient temperature) The best performance is achieved by spraying a thin continuous monolithic layer.

The product can also be applied by a brush or a roller but in order to prevent excessive accumulation of **CR**, using the spraying method would be the best option.


CONSUMPTION

The product is ready to use. Dilution is not recommended.

On large concrete surfaces: 0,150 - 0,250 kg/m².

On floor hardeners: 0,100 - 0,150 kg/m².

ATTENTION

- **İNKA-CR** should be thoroughly mixed before use.
(excessive mixing must be avoided)
- Applications like polyurethane and epoxy coatings can not be made on **İNKA-CR** applied surfaces. Should there be a need to do so; the film layer should be removed by methods such as; pressurized hot water, sand blasting or by solvents.
- Following the application, the surface should be protected against water contact until **İNKA-CR** fully cures. (around 2 - 3 hours @ 20°C) Contact with water before curing may cause permanent stains on surface.
- **İNKA-CR** can also be applied on old concrete surfaces.
- **Storage conditions of the product, as stated in this TDS should be complied with and application should not be made under +5°C.
- The curing compound will set together with the accumulated dust & debris if the joints are cut before **İNKA-CR** fully cures. The cured product will be extremely hard to remove.
- The product should be kept away from frost. If accidental freezing occurs, the thawed product should not be used.
- Ponding of **İNKA-CR** on surface should be avoided as the cured product will be extremely hard to remove. If the product is not cleaned or distributed evenly throughout the substrate, undesired staining may occur.
- Application of **İNKA-CR** at the correct time will prevent premature water loss stopping the formation of plastic shrinkage cracks but curing compounds will not prevent the long term drying shrinkage cracks of concrete. Therefore standard/ known procedures should be followed to design and regulate the expansion and shrinkage control joints of the main structure.
- Application should not be made under direct sunlight.
- Tools and equipment should be washed immediately after use to prevent clogging of the spray nozzles. Nozzles can be cleaned with water right after the application or placed in a bucket of water until the next application.
- Following the initial application, the colour of **İNKA-CR** on the surface is white. But, it will turn translucent in 30 mins. to 

**HEALTH & SAFETY**

- The curing compound is not toxic, use of protective gloves and goggles would be appropriate.
- Contains acrylic dispersion. Washing the skin and/or clothing with plenty of water would be adequate if contact occurs.
- Mechanical ventilation might be needed when used in small spaces and/or in spaces with insufficient ventilation.

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.

