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SCHOMBURG Building Product Systems

Technical Data Sheet

ADICOR®-2K-PU

Art.-No 2 05562

Decorative protective coating for swimming pools

Properties:
- Two component polyurethane/acrylate.
- Low solvent.
- Weather-, UV- and abrasion resistant.
- Low consumption.

Areas of application:
ADICOR-2K-PU is used as a decorative protective coating for the AQUAFIN-2K/M or AQUAFIN-2K system, in swimming pool waterproofing applications. Furthermore as a paint for recoating swimming pools constructed of fibre-glass reinforced polyester resins.

Technical Data:

Basis:	polyurethane/ acrylate
Colours:	pure white RAL 9010 and light blue RAL 5012
Delivery viscosity *) ac. To DIN 53211:	approx. 100 up to 150 s 4 mm nozzle
Flashpoint:	> +23 °C
Solvent:	ADICOR-Solvent
Density *) of mixture:	approx. 1.18 g/cm³
Substrate/ Application temp.:	+8 °C up to +30 °C optimal between +15 °C up to +25 °C
Consumption:	approx. 85 - 125 ml/m² ADICOR-1K-PU, approx. 300 - 400 g/m² ADICOR-2K-PU, depending on application on smooth, even substrate
Layer thickness:	approx. 0.15 – 0.20 mm
Solids content %:	approx. 60
Pot life of mixture *):	approx. 6 hours
Mixing ratio:	resin component : hardener = 5:1 parts by weight
Packaging:	2.5 kg, 5 kg and 10 kg in packaging. Component A and component B are provided in a predetermined mixing ratio.
System components:	AQUAFIN-2K or AQUAFIN-2K/M, ASO-Joint-Tape 2000-S and appropriate ASO-Joint-Tape-2000-S. Shaped pieces such as internal-, external corners, cross pieces and joint sleeves, ADICOR-1K-PU, ADICOR-2K-PU, ADICOR-Solvent
Storage:	frostfree, dry min.12 months in original unopened containers, use opened containers immediately.
Cleaning of tools:	when wet with ADICOR-Solvent Cured material can only be removed mechanically.
Loadabilty *):	
Completely Dry*):	after approx. 2 hours
Touchable *):	after approx. 12 hours
Overcoat *):	after approx. 12 hours to 16 hours
Foot traffic *):	after approx. 16 hours
Rain-proof *):	24 hours after the final application
Fully load bearing *):	after approx. 8 days

*) The values are valid at +23 °C and 65% relative humidty, higher temperatures accelerate, lower temperatures decelerate the curing.

Surface preparation:
The waterproofing layer of AQUAFIN-2K or AQUAFIN-2K/M must be dry, firm, load-bearing and free from adhesion inhibiting substances such dust, grease etc. The waterproofing layer AQUAFIN-2K/M

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must be cured for a period of at least 7 days before the primer ADICOR-1K-PU can be applied.

Product preparation:
Component A (resin) and component B (hardener) are delivered in a predetermined mixing ratio. The material temperature should be approx. + 15° C while stirring. Tip component B into component A. Ensure that the hardener drains completely from its container. Mixing of the two components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time approx. 3 minutes. Mix slowly to avoid air entrapment into the mix. Do not use mixed material directly from the packaging! Decant the material into a clean container and mix thoroughly again then let stand for material to pre-react for approx. 1 hour. The application is to be carried out by roller, brush or spray (e.g. airless or suitable spray equipment).

Application:

Brushing:	Apply in delivered viscosity
Spraying:	Depending on spraying method dilute with approx. 3 - 8 % ADICOR-Solvent.
Roller:	Apply in delivered viscosity. Not optimal application but can be done with a short nap, solvent resistant roller when needed. While rolling, occurring bubbles can be smoothed out after a short drying time by re-rolling with a squeezed out roller. Procedure may have to be repeated.

ADICOR-2K-PU is applied in minimum 2 coats. Outdoor uncovered applications should only be done when dry, rainless weather can be expected during the entire specified application period. As a general rule at least 4 days are required. A further possibility is to cover and protect areas which are to be coated outdoors.

1. Priming:
Apply the primer ADICOR-1K-PU onto the min 7 day old, dust free and dry waterproofing layer of AQUAFIN-2K/M and/or AQUAFIN-2K, in perpendicular roller, brush or spray strokes. Coating should be even and completely covering. Apply the first coat of the topcoat (ADICOR-2K-PU) within 2 to 36 hours after priming, important!
Consumption approx. 85 - 125 ml/m^2.

2. First Layer Topcoat:
After a min. 2 hours up to a max. 36 hours apply ADICOR-2K-PU after application of ADICOR-1K-PU. Apply ADICOR-2K-PU in perpendicular roller, brush or spray strokes.
Consumption approx. 150 - 250 g/m^2.

3. Second Layer Topcoat:
After a min. 12 hours up to a max. 36 hours after application of the first coat of ADICOR-2K-PU apply the second coat. Apply ADICOR-2K-PU in perpendicular roller, brush or spray strokes.
Consumption approx. 150 - 200 g/m^2.

Protect the coating against damaging weather, in particular rainfall, for 24 hours after the second layer of the topcoat. Filling with water can start at the earliest after 8 days.

Once cured ADICOR-2K-PU is physically harmless. Suitable protective measures are to be regarded during application.

ADICOR-2K-PU can be recoated. Prior to recoating abrade the whole surface to be treated with abrasive paper (240 grain size) to a matt appearance. The surface must be subsequently cleaned and free from dust and other impurities.

Recoating should be carried out onto the dried surface beginning with Step 1 as described above.

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Recoating on to GRP/polyester:

- Clean the surface from bond inhibitors such as dirt, dust, etc.
- Seal holes and cracks with glass-fibre quilt, polyester resin and polyester filling compound, which are contained in repair sets from the pool manufacturer (osmosis risk).
- Abrade the entire surface to be coated with an abrasive paper (240 grain size), a matt appearance should be achieved. To avoid formation of dust, wet grinding is recommended.
- After grinding, remove all abrasive dust and contaminants from the pool. The coating is then applied onto the dry surface as described under points 1 to 3.

Important advice:

- Please observe the technical data sheets of the above specified products!
- Protect areas not to be treated with ADICOR-2K-PU from its effects!
- In the area of the water boundary, differences in colour may appear!
- The bonding of the separate layers onto each other can be severely impaired by the influence of moisture and impurities in between the application coats!
- The temperature of the substrate, and/or the individual system must be at least +3 °C above the prevailing temperature of dew point.
- In case there is a longer waiting period than listed between the individual coat applications, the surface must be thoroughly roughened. After that a new application has to be done.
- Swimming pools with high flow-streams, high water pressure and/or high water temperatures can subject the coating to increased wear. We recommend checking the suitability of the ADICOR-2K-PU application for each job in question.
- In shallow waters subject to increased loads (due to walking) an increased wear of ADICOR-2K-PU might appear. We recommend checking the suitability of the ADICOR-2K-PU application for each job in question
- Due to an increased concentration of chlorine and ozone in the water (DIN 19643-2), the coating may become faded. If this occurs and the visible effects are present, it is recommended to recoat the surface.
- Old ADICOR-2K-PU coatings can be overcoated after mechanical abrasion. In cases of uncertainly, carry out a trial area.
- Algae build-up can be removed with a solvent free pool cleaner.

Please observe a valid EU safety data sheet.

GISCODE: PU20