

PLANOFINISH PU 2KS

Solvent based aliphatic polyurethane varnish with glossy finish

- ▷ **High resistance to UV radiation**
 - ▷ **Suitable for PLANOCOLOR Microcement coatings in swimming pools**
 - ▷ **Suitable for external floor applications**
 - ▷ **High resistance to friction and mechanical stresses**
 - ▷ **Suitable for protecting epoxy paints and coatings**
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Description

PLANOFINISH PU 2KS is a two component aliphatic polyurethane varnish with multiple UV filters and high resistance to sunlight and weather conditions, suitable for indoor and outdoor applications. Suitable for application to PLANOCOLOR PREMIUM SP cement screeds in swimming pools and outdoors (PREMIUM SP & 2K) giving a glossy look. Due to its excellent mechanical strength, it significantly improves surface protection from damage when applied to epoxy paints or floor coatings. It has high adhesion even on metal and natural stones.

Certifications

Complies with Directive 2004/42/EC for two-component special coatings (product subcategory i, type D) with a maximum VOC content of less than 500 g/L. The VOC of the final product to be used is less than 500g/L.

Typical Applications

- PLANOFINISH PU 2KS can be used to protect and enhance surfaces such as:
- Micro-cement screeds PLANOCOLOR PREMIUM 2K for outdoor use and floors with heavy use in homes, hotels, parking areas, outdoor benches and built furniture
 - Micro-cement screeds PLANOCOLOR PREMIUM SP in swimming pools, hot tubs, steam baths, built-in showers and in general areas that are permanently immersed in water
 - Self-leveling epoxy coverings or floor paints such as epoxy systems PLANOCOLOR EPOXY or PLANOCOLOR LIQUID GLASS in order to increase surface strength in mechanical loads.
 - Karystos type stones and in general stones in external areas
 - Industrial floors made of concrete and scattered with hardener such as NOVADUR S in industries, parking areas, gas stations, ramps
 - Non-absorbent surfaces such as galvanized metal sheets, polyester

Technical Data

Product Identification

	Component A	Component B
Consistency	Liquid	Liquid
Color	Transparent	Transparent
Chemical base	Aliphatic polyurethane	Catalyst
Specific gravity	0,98 – 1,2 kg/l	1,01 kg/l
Storage	12 months in dry place in the original sealed packaging	

Application Data (+23°C % & 50% R.H.)

Mixing ratio	Part A : Part B \approx 3,6 : 1,4
Specific gravity of the mix	1,05 \pm 0,05 kg/L
Working time	1 hour -> 30°C & 2 hours -> 25°C & 2,5 hours -> 12°C
Temperature application	from +12°C up to +30°C
Walkability	24 hours -> 25°C & 36 hours -> 12°C
Reapplication time	24 hours for temperature <23°C & 12 hours for temperature > 30°C
Full polymerization time	7 days at 25°C

Final Performances according to EN 1504-2:2004 & 13295:2004

	Performance
Gloss (gloss 60°)	60
Abrasion resistance	42mg Tabertest ASTM D 4060 (CS 10/1000/1000)
Adhesion resistance	\geq 2,4 N/mm ²
Resistance to temperature change (dry charge)	from -30°C up to +80°C
Flexibility (torsion test)	Successful (ASTM D522, 180° bend, 1/8"m)

Application Procedure

Substrate preparation

The surface to which PLANOFINISH PU 2KS is to be applied should be clean, dry and free from dust. The substrate must be insulated and not subject to rising moisture. The maximum permissible moisture content of the substrate must not exceed 4%. The application surface temperature should be between + 12°C and + 30°C, otherwise, the varnish will not dry properly, might "break" and discoloration may occur.

Preparation of the mix

Components A and B are in containers with a predetermined mixing ratio. Component B is completely added to component A. Mixing of the two components is done for about 2 - 3 minutes with an electric mixer at low speed (300 rpm). It is important to stir both the walls and the bottom of the container so that the catalyst goes everywhere evenly. Allow the mix to rest for a few minutes and proceed with the application while keeping the material's workability times. The mixing ratio is predetermined, and therefore the mixing of the two components should in no case be made partially.

Application of the mix

Apply the mix in 2 at least continuous layers by means of a suitable varnish roller. The number of layers is determined by the type of application. In any case, ensure that the varnish penetrates well in the surface. The waiting time between layers is 24 hours when the temperature is less than + 23°C and 12 hours when the temperature is higher than +30°C.

When applied to swimming pools upon PLANOCOLOR PREMIUM SP micro-cement we apply 3 layers of PLANOFINISH PU 2KS. At the swimming pool emphasis should be given to the corners at the base of the pool where the material should be applied by paintbrush in order to seal them properly.

In micro-cement coatings such as PLANOCOLOR PREMIUM 2K when the application is outdoors, apply a first layer of DRY BRIGHT diluted 1:1 in water and then 2 PLANOFINISH PU 2KS layers. In this way we avoid color alterations in the final surface, since this risk is significantly reduced by the use of DRY BRIGHT. In any case, however, if there are any doubts, it is recommended to perform a trial application. PLANOFINISH PU 2KS can also be applied to increase the surface strength of epoxy coatings such as PLANOCOAT EPX, PLANOFLOOR EPX or PLANOCOLOR LIQUID GLASS. In these cases, the product is applied in one layer without interruption. The aesthetic effect is a glossy surface with increased resistance to wear.

Maintenance

Daily cleaning of surfaces treated with PLANOFINISH PU 2KS is done with neutral cleaners such as NEUTRAL CLEANER undiluted or diluted in water depending on the application. For special cleaning cases such as black rubber stains, household stains, wax etc. it is recommended to use ALCALINE CLEANER dissolved in water in a ratio of 1÷10 - 1÷20. In cases of salts use

HARD REMOVER diluted in water in a ratio of 1÷3 or 1÷4 and rinse thoroughly with water. In case of doubt when using detergents always perform a trial application. For Ggraffiti cleaning use CLEANCOLL or CLEANCOLL SP. For additional information, refer to the relative Technical Data Sheets of the products.

Recommendations

- Do not apply in surfaces that are not dry
- Do not apply the varnish in surfaces where rising humidity is possible or present
- Do not apply when the temperature is lower than +12°C and the relative humidity of the atmosphere exceeds 65%, or when there is possibility of rain and wet weather, before the varnish is completely dry
- Do not apply PLANOFINISH PU 2KS upon fresh concrete if at least 4 weeks haven't passed and without holding humidity measurements
- Two components of PLANOFINISH PU 2KS are in proportion so never mix partially the two components. In some cases if necessary diluting can only be done with a compatible solvent such as NOVATHINNER PU.
- Do not apply PLANOFINISH PU 2KS upon old varnishes and dusty or dirty surfaces. Remove dust and dirt immediately before application. In any case, the surface should be well wiped off and, if necessary, be sanded before application.
- Always use appropriate and clean tools.
- When applying in swimming pools chemical over-consumption should not occur. This applies both to the operation period and to the cleaning of the pool when it is empty.
- In swimming pools or areas with humidity if the protective layer of PLANOFINISH PU 2KS isn't continuous, moisture may penetrate underneath and then the surface will become discolored and we may also have detachments.
- Do not apply PLANOFINISH PU 2KS in excess quantity, in such a case it cannot be polymerized properly and doesn't set properly.
- All measurements and waiting time refer to surface temperature of +23°C and residual humidity of 50%. Variations on the above may affect waiting times or application process.
- For daily maintenance or cleaning of surfaces treated with PLANOFINISH PU 2KS, use suitable professional cleaners such as ALCALINE CLEANER, NEUTRAL CLEANER or HARD REMOVER. Avoid using highly acidic products and, in cases of doubt, always test before application.
- PLANOFINISH PU 2KS is a solvent based varnish recommended mainly for external area applications. In any case however any precautions required of the use of solvent based materials should be applied.

Consumption

Consumption is 250 – 375 ml/m² for application in 2 - 3 coatings depending the application.

Cleaning

Buckets, tools, coatings etc. can be cleaned with solvent as long as the mix is still fresh. Once dried cleaning can be done only by mechanical means or

strong corrosives

Storage

PLANOFINISH PU 2KS remains stable for at least 12 months in the original sealed packaging stored in dry place protected from humidity, frost and direct sun light exposure in temperature between +5°C and +30°C.

Packaging

Metallic containers of 1 & 5 L (A+B) in predetermined mixing ratio.

Safety Instructions

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety-related data.

Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason anyone interested of using the product must be sure beforehand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.



ΔΟΜΟΧΗΜΙΚΗ ΑΒΕΕ
Παπανικολή 40
Χαλάνδρι, 15232, Αθήνα
T +30 210 68 93 953
F +30 210 68 94 571
novamix@novamix.gr