

PLANOFINISH PU 2KS MAT

Solvent based aliphatic polyurethane varnish with mat finish

- ▷ **Two component, solvent based**
 - ▷ **High resistance to UV radiation**
 - ▷ **Suitable for external floor applications and wet areas**
 - ▷ **High resistance to friction and mechanical stresses**
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Description

PLANOFINISH PU 2KS MAT is two component aliphatic polyurethane varnish with excellent resistance to UV radiation and weather conditions. Suitable for indoor and outdoor applications providing a mat or slightly glossy finish. Due to its excellent mechanical strength, it increases the mechanical surface strength when applied to epoxy paints or floor coatings.

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 MAT can be used to protect and enhance surfaces such as:

- Micro-cement coatings like PLANOCOLOR PREMIUM 2K for outdoor use and floors with heavy use in homes, hotels, parking areas, outdoor benches and built in furniture
- Self-leveling epoxy coatings or floor paints such as epoxy systems PLANOCOAT EPX or PLANOCOLOR LIQUID GLASS in order to increase surface strength in mechanical loads.
- Natural stones such as Karystos mostly in external areas
- Concrete industrial floors by means of power float and superficial 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/Λ
Storage	12 months in dry place in the original sealed packaging	

Application Data (+23°C % & 50% R.H.)

Mixing ratio	Part A : Part B ≈ 3,7 : 1,3
Specific gravity of the mix	1,05 +- 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°)	30
Abrasion resistance	42mg Taber test ASTM D 4060 (CS 10/1000/1000)
Adhesion resistance	≥ 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 MAT is to be applied should be clean, dry and free from dust. The substrate must be insulated and not subject to rising humidity. The maximum permissible moisture content of the substrate must not exceed 4%. The application surface temperature should be between +12°C and 30°C.

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.

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 MAT 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 MAT can also be applied to increase the surface strength of epoxy coatings such as PLANOCOAT EPX, PLANOOFLOOR EPX or PLANOCOLOR LIQUID GLASS. In these cases, the product is applied in one layer without interruption. The aesthetic effect is a "mat" surface with increased resistance to wear.

Maintenance

Daily cleaning of surfaces treated with PLANOFINISH PU 2KS MAT 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 Graffiti 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. In external areas during hot days, provide protection against direct sunlight for the first 7 days of application.
- Do not apply PLANOFINISH PU 2K/S MAT upon fresh concrete if at least 4 weeks haven't passed and without holding humidity measurements
- Two components of PLANOFINISH PU 2KS MAT 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 MAT 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.
- Do not apply PLANOFINISH PU 2K/S MAT in swimming pools, instead use PLANOFINISH PU 2K/S. For more information refer to the relevant technical data sheet of the product.
- Do not apply PLANOFINISH PU 2KS MAT in excess quantity.
- All measurements and waiting time refer to surface temperature of +23°C and residual humidity of 50%. Variations on the above may after waiting times or application process.
- For daily maintenance or cleaning of surfaces treated with PLANOFINISH PU 2KS MAT, use suitable appropriate 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 MAT 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.
- It is recommended that the application be made by a professional user.

Consumption

Consumption is 200 – 250 gr/m² for application in 2 coatings depending on the absorbency of the substrate.

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 MAT 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.



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