

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 such as epoxy system 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 a 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

	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.

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 into 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 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 NEUTROCLEANER 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. In cases of salts use HARD REMOVER. 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 on 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 a 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 2KS 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 2KS MAT in swimming pools, instead use PLANOFINISH PU 2KS. 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, NEUTROCLEANER 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 by 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 a dry place protected from humidity, frost and direct sunlight 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.

Legal notes

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing.

For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website www.novamix.gr or directly to the QR Code of the product.



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