

PLANOFINISH PU 2KW MAT

Aliphatic polyurethane varnish

- ▷ **Two component**
 - ▷ **Contains UV filters for high resistance to UV radiation**
 - ▷ **Waiting time between layers 30 minutes**
 - ▷ **Suitable for external floor applications and wet areas**
 - ▷ **High resistance to friction and mechanical stress**
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Description

PLANOFINISH PU 2KW MAT is a two component aliphatic polyurethane varnish with UV filters and high resistance to sunlight and weather conditions, suitable for indoor and outdoor applications providing a mat finish. Due to its excellent mechanical strength, it significantly improves surface protection from wear when applied to epoxy paints or floor coatings.

Certifications

Complies with Directive 2004/42 / EC for two-component coatings (product subcategory i, type D) with a maximum VOC content of less than 500 g / L. The VOC of the finished product to be used is less than 80 g / L.

Typical Applications

PLANOFINISH PU 2KW MAT can be used to protect and enhance surfaces such as:

- Micro-cement coatings PLANOCOLOR PREMIUM for outdoor use and floors with heavy use in homes, hotels, parking areas, outdoor benches and built in furniture
- Self-leveling epoxy coverings or floor paints such as epoxy systems PLANOCOAT EPX, PLANOFLOOR EPOXY or PLANOCOLOR LIQUID GLASS in order to increase surface resistance to wear
- Slate and in general unpolished rough natural stones
- Industrial floors made of concrete treated with surface hardener such as NOVADUR S by means of power float, 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	White	Transparent
Chemical base	Aliphatic polyurethane	Catalyst
Specific gravity	1,05 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 0,75 : 0,25
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	30 minutes > 25°C & 2-3 hours > 12°C
Reapplication time	15-30 minutes at 23°C
Full polymerization time	7 days at 23°C
Gloss (gloss 60°)	5
Abrasion resistance	48mg 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 2KW MAT 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 surface must not exceed 4%. The application surface temperature (caution not ambient temperature) should be between + 15°C and + 28°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.

Application of the mix

Apply the mix in at least 2 continuous (non-interruptive) layers using a suitable varnish roller. In any case, ensure that the varnish penetrates well in the treated surface. The waiting time between layers is 15-30 minutes for temperature 23°C and relative humidity less than 80%.

Maintenance

Daily cleaning of surfaces treated with PLANOFINISH PU 2KW MAT is done with neutral detergents 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 we want to remove salts or "hard" stains such as cement residues, apply HARD REMOVER diluted in water in a ratio of 1 ÷ 3 or 1 ÷ 4 and rinse thoroughly with water. In cases of doubt when using detergents always perform a trial application. For graffiti cleaning apply water under pressure 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 80%, or when there is possibility of rain and wet weather, before the varnish is completely dry
- The two components of PLANOFINISH PU 2KW MAT are in a premeasured proportion so never mix partially the two components.
- Do not apply PLANOFINISH PU 2KW MAT upon old varnishes and dusty or dirty surfaces.
- Always use appropriate and clean tools.
- Do not apply PLANOFINISH PU 2KW MAT in excess quantity
- PLANOFINISH PU 2KW MAT contains a small percentage of solvents and in any case any precautions required of the use of solvent based materials should be applied.
- The application has to be performed by a professional user

Consumption Consumption is 100 – 150 ml/m² for application in 2 coatings depending on the absorbency of the treated surface.

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

Storage PLANOFINISH PU 2KW MAT remains stable for at least 12 months in the original sealed packaging stored in dry place and temperature between +5°C and +30°C.

Packaging Metallic containers of 1 & 4 L

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 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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