

# POLYMEMBRAN 992

## 1. Commercial specifications:

Commercial name: POLYMEMBRAN 992

Supplier: NANO PLM+ Ltd.

## 2. Product description:

Preventive skid protection.

Product with classification R10 and with classification C >24° for paving, granite, ceramic, earthenware, colors, etc. ATEST DIN 51 097, ČSN EN 134 51-1, ČSN P CEN/TS 16165, DIN 51130, ČSN 72 5191, EN ISO 10545-7

## 3. Product characteristics:

Polymembran 992 is skid preventive protection with classification R10 and IV. class of resistance and classification >24°C of slippery areas as paving, granite, earthenware, ceramics, glaze, different coloured surfaces etc.

It solve the risks which are based on water on the surface. All treated surfaces are covered by ultrathin invisible film with long-term effect.

Main use is for mineral bases according P CEN/TS 16165 a ČSN 74 4505 Floors – for all floors – housing or commercial areas, including passage, where is the risk of slip. According DIN 51130 a ČSN 72 5191 are the application in class R 10, in stocks, kitchens, sanitary room, coffee-room, tea-room, cash desk area, sanitary facilities, also for areas for machines. Till class R 9 can be used for montage of safety floors, for areas for bread, customers area, massage area, hairstylists, ironing/pressing room etc.

## 4. Features:

- Long-term skid protection
- Perfect prevention against slips and accidents
- Possible to use after 60 minutes only!
- Absolutely safe
- Does not make a film
- Easy and quick application.

## 5. Possibilities of usage:

Also for aqua parks, swimming pools, sauna, wellness and sport equipment according DIN 51097 >24° C and ČSN EN 13451-1 >24° class 24°, which is able to increase and renew its effect of current skid protected paving, where increase effectiveness for C. Ideal for hotels, bathrooms, toilets, dressing room, school, kitchen, health care, sanitary equipment, food industry, public buildings etc. Of course is possible to apply on pavement, pedestrian area, bus/trams stops, entrance and working buildings. Next branch for application is in industry – against oil and others slippery liquids. Ideal for all types surfaces – old and also new.

## 6. Application

Time of application is different and depends on kind of surface and power of concentrate. For example glazed surface is strong and compact material: product must be concentrated. Professional company who doing this job, has to find compromise between dilution and perfect protection of each kind of surface.

We recommend to start with 50% of our liquid and 50% of water.

Whole surface must be treated and covered by this product. If the temperature is high during reacting time and some places vaporize, than has to be covered by another layer.

Average time of reaction (concentrate 50 - 60% of concentrate in water):

Sanitary surface : 10 - 45 minutes

Pavement : 10 - 45 minutes

Stones - minerals : 10 - 60 minutes

If the pavement surface has a high vitrification, it can be time of exposition prolonged or is necessary to repeat the application (always has to be made a test!). On sensitive surface – for example polished granite or marble, can this product make a changes on surface because of chemical crystallization, product has to be concentrate at min. 50% with water. Always do a test!

Some of shiny surfaces could chemically change the shine. From this reason is necessary to do a test. In this case you have to change the dilution or reduction of contact time (we recommend dilution).

On some stones or mineral layers could be on surface visible dry film (forming complex salts, exposition of crystals on surface etd.) Always do a test ! Never use on hot surfaces or on sunshine. Protect against ice and cold.

#### Application of Polymembran 992:

Product is ready to use, we recommend to dilute 1:1 with water. Surface has to be absolutely DRY, without dust, grease, moisture, the rest of mineral sediments, water rust etc.

Surface perfectly clean and prepare by product Polymembran 390.

Manual application: brush, roller, mop

Spray application: manual spray applicators, low-pressure spraying

Application time setting its power and effect of layer. If the non-slip layer is satisfactory, than very carefully wash by pure water. There cannot be remaining rests of PLM 992. Because of surfaces are many kinds, we recommend always to do a test.

Note: If the nonslip layer is not sufficient, is necessary to repeat whole process. Time of application is depend on character and type of material. Also is important temperature in place of application. We do NOT recommend to apply the product, if the temperature of air and material is higher than +5 °C, the best temperature is between +10°C till +25°C. Consumption is depending on surface and its porosity. Average consumption is 1 litre of product for 10-15 m<sup>2</sup>.

After thorough rinse is surface deactivated and it can be immediately used. For following care is NECESSARY to use cleaning products for:

Frequency washing: PLM 390 dilution 1:30-50 with water

Washing grease and oil removal of surfaces: PLM 230 or 250 dilution 1:20-50 with water

Washing and removal of mineral sediments: PLM 390 dilution 1:10-30 with water

WARNING: Because of surfaces are many kinds, we recommend always to do a test. After test you are able to set the contact time depending on requested power of nonslip layer. Be sure, that the surface which is treated is all the time in contact with product during whole time of application.

#### 7. Technical chart

Base: water

No. of layers: 1

Consumption: 10-25 m<sup>2</sup>/L

Appearance: liquid

Colour: pure or light yellow

Application time: 30-60 minutes

PH: 1

Density: 1,18

Packaging: 5L, 20L, 6x20L and 200L