

SINGLE COMPONENT POLYURETHANE (PU) PRIMER for Sports Surfaces, Moisture Curing

1 General Data

Application Fields

PROLASTIC P270 is used for elastic sports surfaces as primer for substrates such as concrete and asphalt, on polyurethane coatings in order to achieve an optimal intercoat adhesion or for an intermediate priming between two installation parts of PUR-based elastic surfaces.

Product Description

PROLASTIC P270 is an unpigmented and solvent containing single component PUR-based Primer for sports surfaces.

Due to its low viscosity and therefore high capillary action PROLASTIC P270 exhibits an outstanding adhesion to non-porous substrates. It is easy to apply and produces a resistant, tough elastic film with excellent mechanical properties.

PROLASTIC P270 is moisture curing.

Tested Sports Surfacing Systems

Suitable for all common sports surface systems. On asphalt it is sometimes possible to work without primer. Accurate testing of the substrate is recommended in this case.

Technical Support

For detailed descriptions of PRO-ATHLETIC Systems see PRO-ATHLETIC System data sheets or contact our technical support.

E-Mail: info@pro-athleticsports.com

(A) Technical Data

Liquid

1. Density (23°C) (DIN 53217)	1.00 g/cm ²
2. Viscosity (23°C)	ca. 150 mPas
3. Packing size	200 kg drum
4. Colour	transparent
5. Shelf life / Storage	6 months at 10–25°C, avoid direct sunlight
6. NCO content (DIN 53185)	ca. 7 %
7. Substrate and application temperature	10-35°C (min. 3°C above dew point)
8. Permissible relative humidity	min. 40% – max. 90%
9. Application of next layer (20 °C + 50% rel. LF)	after 4 - 8 hours
10. Material consumption	0.15 – 0.2 kg/m ²

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2 Processing Instructions

Substrate Preparation

The dry and load bearing substrate (asphalt) has to be clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants. The bonding strength of the substrate must be at least 1.0 N/m², the moisture content must not exceed 4% and the temperature of the substrate must be at least 3°C above the current dew point.

For achieving an optimal adhesion between the elastic mat and the substrate it is necessary to apply PROLASTIC P270 as primer.

Processing

The required amount of PROLASTIC P270 is poured from the drum into an application container and applied immediately. Avoid mixing in air. Processing temperature should be between 15 – 25°C.

PROLASTIC P270 is applied onto the pre-treated substrate by roller or brush but best application method is spraying, using an airless equipment. Avoid puddles and apply a thin and uniform layer with 0.15 – 0.20 kg/m² material consumption. Exceeding this rate can cause foaming and a very slow curing of the material.

The next layer can be applied when the primer gets sticky. The installation of the rubber granule mat should then be realized 4 – 8 hours after the priming in any case within the following 24 hours. If exceeding this interval, a new coat of PROLASTIC P270 has to be applied to avoid poor adherence.

At low temperatures and humidity, the speed of reaction is reduced resulting in a longer pot life, re-coating interval and open time. The speed of reaction is accelerated at high temperatures and humidity and the converse is true. Direct sunshine shortens the time frames considerably.

After application, the primer has to be protected from direct contact with water in order to avoid intercoat adhesion problems.

Safety Instructions

For health and safety protection, transport regulations and waste management please consider the Material Safety Data Sheet. Users are advised to wear gloves and eye protection when mixing or applying PROLASTIC P270.

PROLASTIC P270 is non-hazardous in its cured condition.

Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and
- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all PRO-ATHLETIC data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.pro-athleticsports.com or contact us directly).