



PU Sealer 750

Two-component polyurethane resin-based elastic undercoat and filler for preparing indoor and outdoor playing surfaces

WHERE TO USE

Undercoat and filler for evening out surfaces before applying products from the **PU System** line on new asphalt and **Mapecomfort** 4 or 5 mm granulated rubber mat to create bowls, basketball, volleyball, handball and 5-a-side soccer courts.

Undercoat and filler for evening out old asphalt surfaces, as long as they are in reasonably good condition and not crumbling, before applying products from the **PU System** line.

Undercoat and filler for smoothing over asphalt substrates before applying products from the **PU System** line.

Undercoat and filler applied on **Mapecomfort** 4 or 5 mm elastic granulated rubber mat.

Undercoat for levelling and smoothing over surfaces to facilitate application of products from the **PU System** line.

Some application examples

PU Sealer 750 is used to prepare asphalt or rubber support surfaces before applying **PU 700 SL** or **PU 800 SL FR** self-levelling resin.

PU Sealer 750 may be used to even out and level off surfaces, form a more even finish and cover small imperfections.

TECHNICAL CHARACTERISTICS

PU Sealer 750 is an undercoat and filler made from two-component polyurethane resin with thixotropic properties.

PU Sealer 750 is suitable for filling and preparing new porous surfaces to be coated with products from the **PU System** line.

PU Sealer 750 is an elastic undercoat and filler which, when used in combination with products from the **PU System** line, forms a highly durable coating system for playing surfaces which is safe and comfortable for athletes.

PU Sealer 750 contains no APH (Aromatic Polycyclic Hydrocarbons).

RECOMMENDATIONS

- **PU Sealer 750** is used to prepare asphalt substrates and **Mapecomfort** 4 or 5 mm granulated rubber mat. It must never be left exposed to direct sunlight or weather conditions and must be coated with one of the system products from the **PU System** line.
- Do not dilute **PU Sealer 750** with solvent or water.
- Do not apply **PU Sealer 750** directly on dusty, crumbling or weak surfaces.
- Do not apply **PU Sealer 750** on substrates with oil or grease stains or with stains in general.

- **PU Sealer 750** must not be applied directly on damp substrates or on substrates with water in counter-pressure. With these types of substrate, a suitable product must be applied to treat the surface and only after applying such a product should the possibility of coating the surface with **PU Sealer 750** be assessed.
- Do not apply the product directly on substrates with moisture content higher than 4% and/or with capillary rising damp.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not expose the mixed product to sources of heat.
- Protect the coating from water for at least 24 hours after application.
- **PU Sealer 750** may only be applied on top of other finishing products after carefully checking the condition of the old layer and after carrying out preliminary tests to verify that they are compatible and that there is good adhesion between the old finishing product and **PU Sealer 750**.
- Do not apply **PU Sealer 750** directly on concrete or cementitious substrates in general. **PU Sealer 750** may only be applied on this type of surface after it has been treated with **Mapecoat I 600 W** primer as specified in the relevant Technical Data Sheet.

APPLICATION PROCEDURE

Preparation of the substrate

Concrete surfaces to be treated with this product must be dry, clean, free of loose material and as flat as possible or with a maximum slope of 1.5%.

The substrate must be sufficiently strong for the loads the surface will have to withstand when in use.

The moisture content must be no higher than 4% and there must be no capillary rising damp. Make sure there is a suitable vapour barrier underneath concrete substrates. If this is not possible, treat the surface with a suitable product and then, after treating the surface, check to make sure the surface is suitable for **PU Sealer 750**, otherwise it may detach and/or blisters may form.

The surface must be prepared with suitable equipment to remove all traces of dirt, cement laitance and crumbling or detached portions and to make the surface rough and absorbent. Before applying **PU Sealer 750** remove all traces of dust from the surface with a vacuum cleaner.

Any cracks must be repaired by filling them with **Eporip**. Repair damaged areas of the concrete with a cementitious mortar from the **Mapegrout** or **Planitop** line.

Asphalt surfaces to be treated with this

product must be dry, clean, sound, free of loose material and as flat as possible or with a maximum slope of 1.5%.

After preparing asphalt substrates, wait a suitable period of time (around 20 days) before applying **PU Sealer 750** to allow the bitumen to oxidise correctly.

Repair defects such as holes, pitting, cracking, etc. with **Adesilex G19**.

Preparation of the product

PU Sealer 750 is a two-component product.

The two components which make up **PU Sealer 750** must be mixed together just before application. Mix component A thoroughly and add the contents of component B. Mix again for at least 2 minutes with an electric mixer equipped with a mixing attachment at low-speed to prevent entraining air into the product until they are completely blended. After mixing the two components that make up **PU Sealer 750**, it must be spread on the surface within 5 minutes.

Application of the product

Pour **PU Sealer 750** directly onto the substrate and spread it out evenly with a rubber or metal spreader.

The system comprises the application of 1-2 coats of **PU Sealer 750**. Wait 12 hours between each coat in normal temperature and humidity conditions.

Once **PU Sealer 750** has hardened, apply the next layer of one of the products from the **PU System** line within 48 hours. If this time limit is exceeded, roughen the surface slightly, remove all traces of dust with a vacuum cleaner and apply the next coat.

Cleaning

Clean tools used to mix and apply the product with polyurethane thinners before it hardens. Once hardened, it may only be removed mechanically from tools.

CONSUMPTION

Consumption depends on the roughness of the substrate, the surrounding temperature and the type of equipment used to apply the product. The figures indicated are for application at +15°C to +25°C; lower temperatures increase the consumption rate and hardening time of the material.

Theoretical Consumption: 0.8-1.2 kg/m², depending on the condition of the substrate.

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

Do not dilute **PU Sealer 750** with solvent or water.

Do not apply **PU Sealer 750** if it is about to rain.

Do not apply **PU Sealer 750** on damp or wet surfaces; it may not adhere correctly.

Do not apply **PU Sealer 750** on dusty, crumbling or weak surfaces.

Apply **PU Sealer 750** at +15°C to +30°C. The temperature must not drop to below +15°C while **PU Sealer 750** is hardening.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	component A	component B
Colour:	dark grey	brown
Consistency:	thick liquid	liquid
Brookfield viscosity at +23°C (mPa-s):	150-300	
Density at +23°C (g/cm³):	1.22-1.24	1.25-1.30
Storage temperature (°C):	10-30	10-30
Stability of components (from date of production):	6 months	6 months

APPLICATION DATA (at +23°C)

Mixing ratio in weight:	25	100
Consistency of mix:	liquid/paste	
Mixing time:	60-120 seconds	
Open time:	15-35 minutes	
Set to tack:	4-5 hours	
Hardening time:	20-24 hours	
Application temperature range (°C):	15-30	
Set to foot traffic:	24 hours	

FINAL PERFORMANCE

Elongation at failure (DIN 53504) after 7 days at +23°C (%):	70	
Failure load (DIN 53504) after 7 days at +23°C (N/mm²):	6.5	
Density (g/cm³):	1.25	
Shore A hardness:	85	

PU Sealer 750

PACKAGING

PU Sealer 750 is supplied in 25 kg metal drums:

- component A 20 kg;
- component B 5 kg.

STORAGE

Store PU Sealer 750 in its original packaging in a dry place away from sources of heat and at a temperature of +5°C to +30°C. Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

PU Sealer 750 component A is not considered dangerous according to the current norms regarding the classification of mixtures. PU Sealer 750 component B is irritant for the skin, eyes and respiratory tract. It can cause sensitisation if comes in contact with the skin of subjects sensitive to isocyanates. Furthermore, it may cause irreversible damage if used for lengthy periods. It may become hazardous and cause sensitisation if inhaled at temperatures above +60°C. In the event of sickness seek medical attention. During use, wear protective clothes, gloves, goggles and a safety mask to protect the respiratory system, and use only in well-ventilated areas. In case of contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it 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.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com

