PRIMER PU60 and THINNER PU

- **Polyurethane moisture curing solvent resin for consolidating and waterproofing cementitious screeds**
- **Thinner for Primer PU60**





WHERE TO USE

Primer PU60:
Waterproofing of absorbent cementitious screeds where the residual moiusture is above the recommended level for laying wooden flooring.
Thinner PU:
A special blend of solvents for diluting **Primer PU60**.

Some application examples

· Consolidation of screeds that are mechanically weak due to defects, moisture or lack of binder.
· Isolating primer for anhydrite or gypsum substrates.
· Anti-dust consolidating impregnator for industrial concrete floors or for surfaces where raised floors are to be laid.
· Waterproofing treatment before the laying of wooden flooring to block the rise of excessive residual damp in the screeds.
· Anti-dust treatment for both cementitious and anhydrite screeds with irregular surfaces.
· Preparation of synthetic mortars.

TECHNICAL CHARACTERISTICS

Primer PU60 is a one-component polyurethane solvent resin which sets due to the moisture which is present in the surrounding air and in the screeds, and which has the property of penetrating well into the substrate. After evaporation of the solvent and the product is set, the surface layer of the substrate becomes more solid, harder and abrasion resistant. The efficiency of the primer increases more as the amount of penetration increases. Therefore, it is advisable to dilute the first coat with **Thinner PU** from 25% to 100% according to the absorbency of the screed.

RECOMMENDATIONS

· We advise against using this product for renovating rooms in apartment blocks or in rooms next to inhabited areas to prevent the spread of solvent vapour.
· **Primer PU60** is inflammable. All precautions must be taken to avoid the risk of fire. Use the product in areas where there is good ventilation to avoid the formation of pockets of fumes given off by the solvent and do not use naked flames, avoid sparks and do not smoke.
· **Primer PU60** must only be diluted with **Thinner PU**.
· Do not use on wet surfaces and where the rise of water due to capillary action is present.
· Do not apply smoothing compounds or adhesives if the surface of **Primer PU60** is shiny (spread dry sand on the primer while it is still damp). If **Primer PU60** has already set, it must be briskly sanded down.
· If successive treatments with synthetic resin-based products are to be carried out, wait until the solvent has completely evaporated off. Any solvent which has not evaporated off and is held in the substrate, could damage the characteristics of the successive treatment.
· Do not use **Primer PU60** to waterproof anhydrite screeds with a residual moisture content higher than the specified limit. Use **Primer PU60** for consolidating purposes only on this type of substrate.
· Heated anhydrite screeds and substrates must not be waterproofed. Therefore, do not use **Primer PU60** if the residual moisture is above the recommended level.

APPLICATION PROCEDURE

Waterproofing and consolidation

The screed must be free of oil, wax and dirt in general and must be cured for at least 7 to 10 days for every cm of thickness in the case of traditional screeds. Where quick-hydration screeds are used, the curing time must be according to that recommended for the product.
Cracks and crazing must be opened and repaired with **Eporip** or **Eporip Turbo**.
At least two coats of **Primer PU60** must be applied by using a roller or a brush. In order to promote good penetration of the first coat, dilute the product with **Thinner PU** at a ratio of 1:1 to 1:4 according to the absorbency of the support material. After four hours, apply the second coat with the same dilution ratio. If the treatment is not uniform, another coat of neat product may be applied as soon as the previous coat may be stepped on (and after no more than 18 hours). Before passing on to the successive phase, wait until the solvent has completely evaporated off, which usually takes 2 to 7 days. In order to promote good bonding of the adhesive or smoothing compound, it is advisable to sprinkle clean, dry sand on the final coat while it is still fresh.

Anti-dust treatment

Dilute **Primer PU60** with **Thinner PU** at a ratio of 2:1 in weight and apply it with a roller or a brush in a single coat. Wait until it dries (approximately 24 hours) before carrying out the successive phase.

Repair operations

For small smoothing-off and crack-repair operations, a mix of **Primer PU60** blended with **Mapequarz** may be used. The mix ratio is 7-8 kg of **Mapequarz** for every kg of **Primer PU60**. The mortar obtained is easy to apply, and once it sets it gives a very sound surface to which any kind of parquet may be applied. The **Primer PU60** and **Mapequarz** mix must be applied on surfaces which have been treated beforehand with diluted **Primer PU60** no more than 18 hours before. For successive bonding, only reactive adhesives such as **Lignobond**, **Ultrabond P902 2K** and **Ultrabond P990 1K** must be used.

Cleaning

Primer PU60 may be removed while it is still fresh with **Thinner PU**. Once it has set, it is difficult to remove, but sometimes good results may be obtained with **Pulicol 2000**.

CONSUMPTION

Primer PU60
400-1200 g/m².
Thinner PU:
0.25-1 kg per kg of **Primer PU60.**

PACKAGING

Primer PU60:
Available in 10 kg metal drums.
Thinner PU:
Available in 9 kg metal drums.

STORAGE

Primer PU60 and **Thinner PU**:
12 months if stored in their original, tightly-sealed containers and kept under normal conditions

SAFETY INSTRUCTIONS FOR APPLICATION OF THE PRODUCT

Primer PU60 is inflammable. We recommend storing it away from heat and sparks, to avoid smoking, to prevent the build up of electrostatic energy and to work in well ventilated areas. It is irritant for the eyes, the skin, and the respiratory apparatus. It can cause irreversible damages if used for lenghty period, sensitization if inhaled, drowsiness and dizziness. When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. If there is insufficient ventilation, wear a face mask with a filter.
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.
Thinner PU is highly inflammable. We recommend storing it away from heat and sparks, to avoid smoking, to prevent the build up of electrostatic energy and to work in well ventilated areas. It is irritant for the skin, the eyes and it may cause drowsiness and dizziness. When applying the product, we recommend the use of protective gloves and goggles and to

take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. If there is insufficient ventilation, wear a face mask with a filter.
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 FOR PROFESSIONAL USE.

PRIMER PU60 - TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	brown
Density (g/cm³):	1.025
Max. allowed humidity for waterproofing:	5% measured with a carbide hygrometer
Mixing ratio:	none; damp-setting mono-component
Dilution (%):	from 25% to 100% with **Thinner PU**
Yield (g/cm²):	400-1200 according to the absorbency of the support material and the number of coats applied
Set to light foot traffic at +23°C and 50% R.H.:	according to yield and dilutuion, 3-8 hours
Setting time at +23°C and 50% R.H:	24 hours
Waiting time before bonding:	when there is no odour of solvent, usually after 2-7 days with reactive adhesives such as **Lignobond**, **Ultrabond P902 2K** and **Ultrabond P990 1K**
Application temperature range:	from +5°C to +35°C
Packaging:	10 kg drums
Application:	with a roller, brush or watering can
Cleaning:	with **Thinner PU** while the product is still fresh
THINNER PU - TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	transparent
Density (g/cm³):	0.871
Viscosity FC4":	12"

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

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