

PENTENS PU-110

Polyurethane Sports Ground Flooring

Product Data Sheet

Description

PENTENS PU-110 is composed of hardener NCO and prepolymer OH under hardening reaction at room temperature, featuring unique tenacity and abrasion resistance of PU elasticity, where it proves to be the best floor material for athletic purposes.

Uses

- Indoor and outdoor athletic courses, tracks and fields.
- Courts: tennis court, basketball court, volleyball court, badminton court, handball court, etc.
- Recreational purposes: Horse race court, golf links and rest zones, children's playgrounds, etc.

Advantages

- Abrasion resistant and elastic.
- Excellent weather resistance and durability.
- Easy to be installed at room temperature.
- Easy and low maintenance cost.
- Reduce risk of injury.
- Anti-slip & comfortable.
- Good adhesion to concrete, asphalt, wood etc.

Technical & Physical Data

Specific Gravity	1.18
Pot Life (minute)	30-60
Drying Time (hour)	3-6
Hardness (Hs)	50
Tensile Strength (kgf/cm ²)	25
Elongation (%)	350
Tear Strength (kgf/cm)	10
Abrasion Resistance (g)	2.0
Ball Rebound Test (%)	40

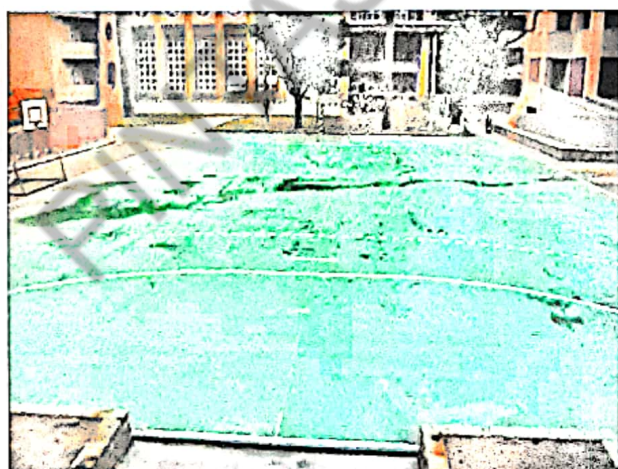
Oven Aging, 168 h at 70°C

Hardness (Hs)	46
Tensile Strength (kgf/cm ²)	27.5
Elongation (%)	375
Tear Strength (kgf/cm)	10.5
Packaging	
■ PU-110A	20kg /pail
■ PU-110B	10kg /pail

*Comply with the Chinese National Standard – CNS 6988

Important Notes

The material should be stored in dry, cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°C – 30°C. Products should remain in their original, unopened containers, bearing the manufacturer's name, product designation, batch number and application precaution labels.



Disclaimer. All representations and recommendations set forth are given in good faith and to the best of our knowledge. However due to varying conditions and applications, the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usages. The sale of this product shall be on terms and conditions set forth on Pentens order acknowledgement.

Instruction for Use

Surface Preparation

The surface needs to be clean, dry and sound, free from any contaminants which may affect the adhesion of the membrane.

New concrete structures need to be dried for at least 28 days. Make sure the ground humidity is below 10%. PENTENS PU-110 can also be applied on asphalt concrete bases. Smooth high spots. Fill low areas, holes, cracks or joints with the appropriate sealant. Prime the concrete surface with PENTENS PU-01 primer at 0.2~0.3kg/m², then dry for 12-24 hours.

Application

PENTENS PU-110A and PENTENS PU-110B should be mixed according to the stipulated mixing ratio (2:1 part by weight).

The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes homogeneous.

PENTENS PU-110 can be applied by using a spatula, trowel, squeegee scraper in one or two layers to reach 3-5 mm thickness. For 1mm thickness: 1.2kg/m² of material consumption.

Each layer needs 12-24 hours to dry.

Surface matte finish:

Use roller to apply 2 coats of PENTENS PU-120 Polyurethane Surface Finishing Coat at 0.2kg/m² per coat.

Wait 6-8 hours for surface matte finish to dry then install the line-drawing.

Final curing will occur after 5 days. Stop applying the material if rain is imminent during or immediately following installation.

Health & Safety

Keep away from fire sources. Do not smoke. Sufficient ventilation is recommended, otherwise wear respiratory equipment. When handling these materials, wear gloves and goggles to protect hands and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Hand and tools must be cleaned before polymerization with solvent or cleanser.

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