

Technical Data Sheet
Number : PUAS-01-01
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POLYFLOOR® PUAS-620-2K WB

Polyfloor PU Top Seal Water Based



PRODUCT DESCRIPTION

POLYFLOOR PU PUAS-620-2K WB is two components water based polyurethane coating. It has excellent hardness, abrasion resistance and good hot-tire mark resistance. PUAS-620 is suitable for top coat or top seal in interior and exterior uses. Can be applied on floor and wall. Available on clear and color

FIELDS OF APPLICATION

- Car park / car garage
- Hospital and laboratory
- Supermarket, Boutique shop
- Warehouse and production area
- Restaurant and natural stone floor
- Food and beverages factory
- Pharmaceutical factory

ADVANTAGES

- Food Grade (US FDA 21 CFR 175.300)
- Non-yellowing and non-chalking
- Excellent abrasive and scratch resistant
- Satin finish and easy to clean
- Chemical resistant
- Excellent adhesion to concrete and epoxy
- Interior and exterior application

TECHNICAL DATA

Type	: Two components water based polyurethane
Color	: As shown in the color card
Finish	: Satin
Solid by Volume (mixture)	: $\pm 44\%$
Specific Gravity (mixture)	: $\pm 1.15 \text{ gr/cc}$
Material Consumption	: 0.25 kg-set/m^2 for ± 100 microns DFT
Drying Time (30°C)	:
- Surface Dry	: 2 hours
- Hard Dry	: 20 hours
- Full Cure	: 7 days
- Open Traffic	: 24 hours for foot traffic and 7 days for vehicular traffic
Packaging	: 5 and 20 kg-set
Storage Stability	: One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	: Comp A : B = 4 : 1 w/w
Pot Life	: 60 minutes in 30°C
Application Method	: Squeegee and epoxy roll
Re-coating Interval (30°C)	: 4 - 6 hours
Application Temperature	: 25 - 35°C
Humidity Maximum	: 80 % RH
Provide adequate ventilation during application and drying	



TEST PERFORMANCE DATA

Item	Result	Standard Test
Compressive Strength	: > 60 N/mm ² in 28 days	BS-6319 Part 2
Bonding Strength	: > 2.5 N/mm ² concrete failure	ASTM D-4541
Abrasion Resistant	: 14 mg loss/m ²	ASTM D-4060
Impact Resistant	: 1 kg > 1m	ASTM D-2794
Hardness	: 81 osc in 7 days	ASTM D-2240 (Shore D)
Tyre Mark Resistant	: Good	
Scratch Resistant	: 88 x	Crock meter test
Gloss Level	: 20 - 30 %	Gloss meter
Water Resistant	: Excellent	Karsten test
Solvent Resistant	: Excellent*	
Chemical Resistant	: Excellent*	
Pot Life	: 60 minutes (30°C)	
Temperature Resistant	: -10 to 100°C	

* consult with Propan for solvent and chemical list

INSTRUCTION FOR USE

Surface Preparation

Compressive strength of concrete floor not less than 25 N/mm² in more than 28 days. Moisture content should be less than 5% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

Application Procedure

Function	Product and Tools	Coating amount	Hard Dry
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well comp. A and B using mixer ± 1 minutes. Pour the comp. C while stirring, slowly ± 1 minutes and apply with metal trowel. Mixing ratio comp. A : B : C = 3 : 2 : 35 by weight	22 kg-set /m ² /cm	± 8 hrs (30°C)
Primer Coat	: Mix comp. A Polyfloor PUAS-620-2K WB in low speed mixer. Pour comp. B to comp. A while stirring and mix well ± 2 minutes. Mixing ratio comp. A : B = 4 : 1 by weight. Dilute with 10-15% clean water. Apply with squeegee and epoxy roll	0.25 kg-set/m ² / 100 mic DFT	± 20 hrs (30°C)
Top Coat	: Mix comp. A Polyfloor PUAS-620-2K WB in low speed mixer. Pour comp. B to comp. A while stirring and mix well ± 2 minutes. Mixing ratio comp. A : B = 4 : 1 by weight. Dilute with 10-15% clean water. Apply with squeegee and epoxy roll	0.25 kg-set/m ² / 100 mic DFT	

Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic

RECOMMENDED COATING SYSTEM

Preceding coats : POLYFLOOR series, EPOGREEN series, MULTIPOX series

Subsequent coats : Polyfloor PUAS-620-2K WB series
: Top Seal TS-204-1K WB
: Propan UV Floor series



CLEANING

POLYFLOOR PU PUAS-620-2K WB should be removed from tools and equipments with soap water then rinse again with clean water immediately after use. Hardened material can be removed mechanically only.

SAFETY PRECAUTIONS

POLYFLOOR PU PUAS-620-2K WB is non-flammable but does not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

First Aid

- Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.
- Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists
- Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

