

Protective Coating Products

Polyurethane Paints

Kemapoxy 129 PUR (Matt)

Matt Polyurethane Coating Based on Acrylic For Wood, Concrete and Steel.

Description:

- **KEMAPOXY 129 PUR Matt:** is a final flexible, coloured or transparent two components Polyurethane resin paint based on Acrylic, solvent containing.
- Complies with ES 1382 and API RP 5L₂.

Fields of Use:

- Final top coat for concrete, cement plaster, steel and wood surfaces exposed to the effects of water, moisture, atmospheric conditions, chemicals, abrasion, friction and mechanical stresses e.g. walls and floors of chemical plants, textile factories, workshops, food and drug factories, laundries, stores, garages, nuclear power stations, stairs, laboratories and hospitals.
- Transparent protective coating for copper & metallic surfaces.
- Protection of polyvinyl chloride (PVC) pipes against atmospheric conditions and ultraviolet rays.
- It can be used as a final top coat in hospitals for operation rooms and hospital facilities.

Advantages:

- Anti-fungal and anti-bacterial.
- High resistance to the effects of chemical agents, atmospheric conditions, humidity and water.
- High resistance to mechanical stresses, specially friction and abrasion.
- Stable against sun light and resistant to ultra - violet rays.
- High flexibility which permits the overbridging of fine cracks and has good impact resistance which suits the use of coating in athletic playgrounds .
- High bonding strength to concrete, steel, wood surfaces.
- High coverage rate and short drying time.
- Easy application.
- Is supplied in different attractive colours and transparent .
- Has no harmful effect.

Technical Data :(at 25 °C)

	coloured	transparent
Colour		
Soild content (by weight)	74 ± 0.03 %	58 ± 0.03 %
Density	1.33 ± 0.02 kg/l	0.99 ± 0.02 kg/l
Mixing ratio A: B by weight	15 : 1	11 : 1
Pot life	4 hours (decreases at higher temperatures)	4 hours (decreases at higher temperatures)
Initial setting time	1 hours	3 hours
Final setting time	12 hours	18 hours
Full hardness	7 days	7 days
Recoating time	12 - 24 hours	12 - 24 hours
Min. application temperature	8°C	8°C
Thinner (10% if needed)	Thinner S , Thinner L	Thinner S , Thinner L
Rate of use (theoretical)	310gm /m ² I coat (100 μ)	275 gm /m ² /coat (100 μ)

Chemical resistance : (Immersion time 7 days)

(For black, bricky-red and grey colours)

Sulphuric acid	50%	g	Sodium hydroxide 50%	ex
Hydrochloric acid	25%	g	Potassium hydroxide 50%	ex
Phosphoric acid	30%	ex	Ammonium nitrate	ex
	50%	g		
Nitric acid	5%	ex	Fuels Petrol	ex
	20%	g	Benzin	ex
Acetic acid	10%	ex		
	20%	g		

ex: excellent (no softening + no bubbles +no change in colour)
g: good (no softening + no bubbles + slight change in colour and weight)

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Directions for Use:

- The surface to be coated should be dry, clean and free of dust, oils, grease and loose particles.
- New Concrete should be at least 28 days old and surface moisture should be less than 4%.
- A primer coat of **KEMAPOXY101** is recommended for concrete and wood surfaces, and a primer coat of **KEMAPOXY131** for steel surfaces before the application of **KEMAPOXY 129 PUR (matt)**
- Mix thoroughly the two components of **KEMAPOXY 129 PUR (matt)** using a slow rotating electric mixer (maximum 300 r.p.m.)
- Apply **KEMAPOXY129PUR (matt)** using brush or roller or sprayer.
- Apply one coat or more of **KEMAPOXY 129 PUR (matt)** as required and a period of 12 - 24 hours is required between each two successive coatings.
- To obtain a skid resistant flooring, spray a layer of pure sand at (0.2 - 0.7) mm diameter at a rate of 1 kg/m² on the first coat of **KEMAPOXY 129 PUR (matt)** , then apply a final coat of **KEMAPOXY 129 PUR** at a rate of 400 - 800 gm/m² .
- Clean tools by **KEMSOLVE 1**.
- N.B. To avoid color deviation from one patch to another, only use the same patch number in the same area.

Safety Precautions:

- Application should be carried out in well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water. Don't use solvent.
- If the material is splashed into the eyes, they should be immediately washed with water and then report to an eye specialist.
- Do not eat or smoke during application.

Storage / Shelf life:

- 2 years under suitable storage conditions in closed containers.

Packages:

- Kits (A+B) 1 kg and 4 kg for coloured and transparent .
- Follow the mixing ratios - by weight - indicated on the package.