

Kemapoxy 651

Polyurethane Coating Modified with polyester matt or glossy

Description:

- **KEMAPOXY 651** : is a final flexible, coloured or transparent two components Polyurethane resin paint modified with polyester, solvent containing.
- Complies with ES 1382 .

Fields of Use:

- Final top coat for concrete, cement plaster, steel, wood and asphalt 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, drug factories, laundries, stores, garages, nuclear power stations, stairs 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.
- Paints of heaters .

Advantages:

- 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.

Technical Data : (at 25 °C)

Colour	coloured	transparent
Soild content (by weight)	70±1 %	55 ± 1 %
Density	1.32 ± 0.05 kg/l	1.21 ± 0.05 kg/l
Mixing ratio A: B by weight	3.5 : 1	2.7 : 1
Pot life	1.5 - 2 hours (decreases at higher temperatures)	1.5 - 2 hours (decreases at higher temperatures)
Initial setting time	12 hours	12 hours
Final setting time	24 hours	24 hours
Full hardness	7 days	7 days
Recoating time	12 - 24 hours	12 - 24 hours
Min. application temperature	8°C	8°C
Thinner	Thinner S , Thinner L	(10% when needed)
Rate of use (theoretical)	250gm /m ² I coat (100 μ)	340 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)

Protective Coating Products

Polyurethane Paints

Directions for Use:

- The surface to be coated should be dry, clean and free of dust, oils, grease and loose particles.
- 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 651**.
- Mix thoroughly the two components of **KEMAPOXY 651** using a slow rotating electric mixer (maximum 300 r.p.m.)
- Apply **KEMAPOXY 651** using brush or roller or sprayer.
- Apply one coat or more of **KEMAPOXY 651** as required and a period of 12 - 24 hours is required between each two successive coatings.
- To obtain a skid resistant surface, 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 651** , then apply a final coat of **KEMAPOXY 651** at a rate of 400 - 600 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:

- 2 years under suitable storage conditions in closed containers.

Packages:

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