EMAPUR PS 90 9-00

Polyurethane topcoat

EMAPUR PS 90 9-00 is a two-pack, gloss polyurethane topcoat intended for coloring in tinting systems. The hardener is an aliphatic isocyanate resin.

Intended for final painting of areas of ships above the waterline, construction operating in industrial and heavy duty environment, bridges constructions.

High decorative, good adhesive to substrate, tough and flexible. Resistant to weathering, sun radiation, sanitary, fresh and sea water and periodic action of salt and alkali solutions, diluted acid solutions, oil, fuel oil, diesel and some thinners (gasoline, xylene). Coating in white colours shows a reflectivity of solar radiation above 70%.

TECHNICAL DATA

Fields of application	Machinery, Steel constructions				
Binder	Polyurethane				
Solids	56±2% by volume (ISO 3233)				
Total mass of solids	Approx. 800 g/l				
Volatile organic compound (VOC)	Approx. 400 g/l (DIRECTIVE 2010/75/EU)				
	The VOC value provided is the average value for factory produced products, and				
	consequently it will be subject to variations between individual products				
	covered by this Technical Data Sheet.				
Theoretical spreading rate	Dry film (μm)	Wet film (µm)	Theoretical spreading rate		
	Dry IIIII (µIII)		(m²/l)		
	50	90	11.1		
	Depending on destination and type of construction, other thickness of a single				
	layer can be assumed than recommended in information. Typical coating				
	thickness range using airless spray is from 40 to 60µm. Different dry film				
	thickness than recommended causes change in theoretical spreading rate, wet				
	film thickness, weight of dry film thickness, drying time, overcoating time and				
	ready for handling time.				
Practical spreading rate	The values depend on the application technique, surface conditions, overspray,				
	etc.				
Colours	Same tinting system should be used during the whole painting project. Factory				
	colours by agreement offered as paint EMAPUR P.				
	Teknomix;Teknotint				
Tinting system	Teknomix;Teknotint				







Hardener	Comp. B: EMAPUR utwardzacz			
Mixing ratio (A:B)	100:22 parts by volume			
Pot life, +23°C	2 h			
Thinner	TEKNOSOLV 9521- slow evaporating, TEKNOSOLV 433- fast evaporating			
Storage	The storage stability is shown on the label. Store indoors in a cool and dry place and in a tightly closed can. The hardener reacts with air humidity and therefore the can is to be kept carefully closed. Use opened hardener within two weeks.			
DIRECTION FOR USE				
Surface preparation	Remove from the surfaces any contaminants that might be detrimental to surface preparation and application. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:			
	OLD PAINTED SURFACES SUITABLE FOR OVERCOATING: Any impurities that might be detrimental to the application of paint (e.g. grease and salts) are removed. The surfaces must be dry and clean. Old, painted surfaces that have exceeded the maximum overcoating time are to be roughened as well. Damaged parts are prepared in accordance with the requirements of the substrate and the maintenance coating. The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment.			
	Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.			
Application method	Airless spraying, Conventional spraying, Brush, Roller			



Application	to be mixed at a time. Before a right proportion. Stir thorough stirring or incorrect mixing rati properties. Stir thoroughly before use. App – conventional spray. Suitable airless nozzle size 0.0 Before use clean the spray gur 9521 or TEKNOSOLV 433.	Stir thoroughly before use. Apply by airless spray, brush, roller, and after diluting – conventional spray. Suitable airless nozzle size 0.011 - 0.013". Before use clean the spray gun and mixing vessels with a thinner TEKNOSOLV			
	same mixing ratio. Using this h properties of the coating.				
	Do not use universal thinners, with the hardener.	Do not use universal thinners, since they may contain alcohol which will react with the hardener			
Application conditions	Minimum surface temperature 3°C higher than dew point dur	The surface to be treated must be dry and the relative air humidity below 80%. Minimum surface temperature -5°C (surface frost- and ice-free) and at least 3°C higher than dew point during the application and drying period. Adequate ventilation during application and drying period is recommended.			
Drying time	+23°C / 50% RH (dry film 50 μ	+23°C / 50% RH (dry film 50 μm)			
- dust free	after 3 h				
- touch dry	after 8 h				
Overcoatable					
Overcoatable	Surface temperature	Min.	By itself Max.		
	4005		18 months or extended**		
	+10°C	16 h			
	+23°C	8 h	18 months or extended**		
	* A completely clean surface is adhesion. If the maximum ove must be roughened before ove relative humidity of the air in t and effect the overcoating pro ** Maximum overcoating inter determine if extended overcoa representative in written form	rcoating interval has ercoating. Increase in he drying space slow perties. val can be extended ting interval is appli	s been exceeded, the surface n film thickness and rise in the w down the drying process I in certain circumstances. To		
Cleaning		TEKNOSOLV 9521, TEKNOSOLV 433			
ciculing					



HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

The hardener of the product and the ready mixture contain isocyanates. In poorly ventilated areas and especially when using spray application we recommend the use of a fresh air mask. In short or temporary work, a mask with combined filter A2-P2 can be used. In this case eyes and face are to be protected.

The hardener can must be opened with caution, as pressure may develop in the can during storage.

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