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PRODUCT NAME 07 06.03.2018		TEKNODUR 9204-05 High Solid Polyurethane Topcoat		
PRODUCT DESCRIPTION		TEKNODUR 9204-05 is a semigloss two pack polyurethane paint with an aliphatic isocyanate as a hardener.		
INTENDED USE		The paint can be used as a topcoat in polyurethane coating systems in combination with a primer. It is also suitable for the use on steel, zinc and aluminium surfaces with an appropriate surface preparation (SA2½, FePho, ZnPho).		
SPECIAL CHARACTERISTICS OF THE COATING		Low solvent content. Quick drying. Good mechanical and weather resistance. Excellent adhesion on different types of substrate.		
TECHNICAL DATA				
Mixing ratio	Base component A: Hardener B: TEKNODUR HARDENER 7235 or TEKNODUR HARDENER 7500	8 by vol. 1 by vol.	12 by weight 1 by weight	
Potlife at 23°C	3-4 h (depending on application method)			
Specific resistivity	800-900 kΩ			
Solid content	76 ± 2 by weight-% 62 ± 2 by volume-%			
Density	1,5 g/cm ³			
Volatile organic compound (VOC)	340 g/l			
Recommended film thickness and theoretical spreading rate	dry film (µm)	wet film (µm)	Theoretical spreading rate (m ² /kg)	
	60	100	6,8	
	80	130	5,1	
	As many of the paint's properties will change if too thick coats are applied, it is not recommended that the product is applied to a film thickness that is more than double of the thickest recommended film.			
Practical spreading rate	The values depend on application technique, surface conditions, overspray, etc.			
Drying time, +23°C / 50 % RH (dry film thickness 60 µm)				
- dust dry (ISO 1517:1973)	After 20 min.			
- touch dry (DIN 53150:1995)	After 1,5 h.			
- forced drying condition	60°C – 1 h (dry to handle)			
Overcoatable, 50 % RH (dry film thickness 60 µm)				
	with itself			
	Surface temperature	min.	max.	
	+ 23°C	4h	-	
	The given values of drying time and overcoatability can change due to film thickness and drying conditions. Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.			
Diluent / thinner	TEKNOSOLV 6740			
Cleaning of equipment	TEKNOSOLV 6740			
Gloss	Semigloss to glossy (depending on colorshade)			
Colorshades	The paint can be tinted with Teknotint tinting systems. Same tinting system should be used during the whole painting project.			
SAFETY MARKINGS	See Material safety data sheet			

DIRECTION FOR USE	
Surface preparation	<p>Remove from the surface any contaminants that might be detrimental to surface preparation and coating. Remove also water-soluble salts by using appropriate methods. The surface should be prepared as follows:</p> <p>STEEL SURFACES: Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1). Roughening the surface of thin-plate improves the adhesion of the paint to the substrate.</p> <p>ZINC SURFACES: Hot-dip-galvanized steel structures that are exposed to atmospheric corrosion can be painted if the surfaces are sweep blast-cleaned (SaS) till matt all over. Suitable cleaning agents are, e.g. aluminium oxide and natural sand. It is not recommended to paint galvanized objects that are subjected to immersion strain.</p> <p>It is recommended that new zinc-coated thin-plate structures are treated with sweep blast-cleaning (SaS).</p> <p>The place and the time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before subsequent treatment.</p> <p>ALUMINIUM SURFACES: Surfaces that are exposed to weathering are also roughened up with sweep blast-cleaning (AlSaS) or sanding.</p> <p>OLD PAINTED SURFACES SUITABLE FOR OVERCOATING: Any impurities that might be detrimental to the application of paint (e.g. grease and salts) are to be removed. The surface 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.</p>
Mixing of the components	<p>Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before painting the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.</p>
Application conditions	<p>The surface to be painted must be dry and the relative air humidity below 80%. During the application and drying period the temperature of the ambient air and the surface shall be at least above -5°C and the temperature of the paint must be at least 3°C above the dew point of the ambient air.</p>
Application	<p>Before use stir the paint thoroughly.</p> <p>Apply the paint with brush, conventional spray or airless spray. Airless spray nozzle 0.011 - 0.013.</p> <p>Before use clean the spray gun and paint vessels with the paint's own thinner.</p> <p>The hardener of the paint and the ready paint mixture contains 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 both eyes and face are to be protected.</p> <p>The hardener can must be opened with caution, as pressure may develop in the can during storage.</p>
ADDITIONAL INFORMATION	<p>The storage stability is shown on the label. The hardener reacts with air humidity. Store in a cool place and in a tightly closed can. It is a recommend to use it in the space of 14 days.</p> <p>You can find instructions about the surface preparation in the norms EN ISO 12944-4 and ISO 8501-2.</p>

The information on this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest version of Teknos data sheets, material safety data sheets and system sheets are on our homepage www.teknos.com.