


|  | www.teknos.com | | | | | | | | |
|--|---|-------------------|---|---------------------|------|------|--------|-----|---|
| PRODUCT NAME 02 27.03.2019 | TEKNODUR 9204-03 2K- High Solid Polyurethanetopcoat | | | | | | | | |
| PRODUCT DESCRIPTION | TEKNODUR 9204-03 is a semi-matt two-pack high solid polyurethane paint with an aliphatic polyisocyanate as a hardener. | | | | | | | | |
| INTENDED USE | The paint can be used as a topcoat in polyurethane coating systems in combination with a primer. With an appropriate surface preparation (SA 2,5, Fe Pho, ZnPho) it can also be used as one layer coating system. | | | | | | | | |
| SPECIAL CHARACTERISTICS OF THE COATING | Low solvent content. Quick drying. Good mechanical and weather resistance. Excellent adhesion on aluminium and zinc galvanized substrates. | | | | | | | | |
| TECHNICAL DATA | | | | | | | | | |
| Mixing ratio | Base (Comp. A): Hardener (Comp B): TEKNODUR HARDENER 7235 or TEKNODUR HARDENER 7500 | 12 Gew. 1 Gew. | 8 Vol. 1 Vol. | | | | | | |
| Potlife at 23°C | 3-4h (according to application method) | | | | | | | | |
| Solid content | 75 ± 3 by weight.-% 60 ± 3 by volume.-% | | | | | | | | |
| Density | 1,5 g/cm ³ | | | | | | | | |
| Specific resistance | 800 – 900 kΩ | | | | | | | | |
| Volatile organic compound (VOC) | approx. 340 g/l | | | | | | | | |
| Recommended film thickness and theoretical spreading rate | dry film (µm) | wet film (µm) | Theoretical spreading rate (m ² /kg) | | | | | | |
| | 60 | 100-110 | 6,4 | | | | | | |
| | 80 | 130 -140 | 4,8 | | | | | | |
| 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) | | | | | | | | | |
| <ul style="list-style-type: none"> - dust dry (ISO 1517:1973) - touch dry (DIN 53150:1995) - drying conditions | after 20 min after 1,5 h 60°C – 1h | | | | | | | | |
| Overcoatable, 50 % RH (dry film thickness 60 µm) | | | | | | | | | |
| with itself | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Surface temperature</th> <th style="width: 25%;">min.</th> <th style="width: 25%;">max.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">+ 23°C</td> <td style="text-align: center;">1 h</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> | | | | Surface temperature | min. | max. | + 23°C | 1 h | - |
| Surface temperature | min. | max. | | | | | | | |
| + 23°C | 1 h | - | | | | | | | |
| 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 and cleaning of equipment | TEKNOSOLV 6740 | | | | | | | | |
| Gloss | Semimat or semigloss | | | | | | | | |
| Colorshades | RAL 1007, 5009, 7016 und 7021, other on demand | | | | | | | | |
| 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 blasted (SaS) till matt all over. Suitable blasting agents are, e.g. aluminium oxide and natural sand. It is not recommended to paint galvanized objects that are subjected to immersion strain. 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 (AISaS) 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 over coating time are to be roughened as well.</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 conventional spray or airless spray. Airless spray nozzle 0.011 - 0.013.</p> <p>The hardener of the paint and the ready paint 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, both eyes and face are to be protected.</p> <p>The hardener 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. 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.