
TEKNOROAD 3059

Road Marking Paint

PAINT TYPE	TEKNOROAD 3059 is a very fast-drying, matt, water-borne dispersion paint that is resistant to weather and light.
USAGE	Used on asphalt, oil gravel and concrete for marking of roads and related carriageways, parking places, air fields and other areas with traffic.
SPECIAL PROPERTIES	<p>TEKNOROAD 3059 road marking paint dries extremely fast. When the weather conditions are good, traffic can be allowed on the painted surface after 3 minutes without causing damage to the paint. The drying is slower at lower temperatures but even then it is fast enough for the paint to be used when the temperature is e.g. +5 - +10°C.</p> <p>After application the paint is water-soluble for about 20 minutes, and therefore painting, when rain is expected is to be avoided. If the paint is dissolved in rain water it can spread on the road and soil the vehicles.</p> <p>TEKNOROAD 3059 fulfils the quality requirements for road marking paints prescribed by the Finnish Transport Infrastructure Agency.</p>

TECHNICAL DATA

Solids	77 ±2% by weight
Total mass of solids	abt. 1300 g/l
Volatile organic compound (VOC)	abt. 23 g/l
Recommended coat thickness and theoretical spreading rate	<p>WET FILM THICKNESS: 250 µm - 350 µm CORRESPONDING DRY FILM THICKNESS: 150 µm - 210 µm</p> <p>THEORETICAL SPREADING RATE: 3 - 4 m²/l</p> <p>Surface roughness and porosity as well as overspray may reduce the spreading rate.</p>
Thinner	Water
Clean up	Water, TEKNOSOLV 9515
Finish	Matt
Colours	<p>White, yellow and several special colours.</p> <p>White and yellow come up to the requirements for brightness and colour prescribed by the Finnish Transport Infrastructure Agency.</p>
SAFETY MARKINGS	See Safety Data Sheet.

DIRECTION FOR USE**Surface preparation**

The surface to be painted must be dry and free from oil and grease. Prior to painting the surface must be cleaned from dust, sand, clay and all other loose matter that may weaken the adhesion of the paint to the surface.

Furthermore, when painting concrete surfaces, dense laitance must be thoroughly removed before painting by shot-blasting, surface grinding, etching or by some other appropriate method.

Etching is done with RENSA ETCHING etching liquid or with diluted hydrochloric acid (1 part acid to 4 parts water). Rinse the surface with water after etching and allow to dry.

We recommend that the top layer of the concrete surfaces is always removed in order to ensure good adhesion.

Application

The paint can be used as such for conventional and airless spraying.

The homogeneity of the paint must be ensured before painting. If needed, the paint is homogenized using e.g. a drill mixer.

Avoid painting when the relative humidity of the air exceeds 75%, as this slows down the drying considerably.

Thinning the paint should be avoided.

Do not paint more than 400 µm in a single operation. Thicker paint films will crack and may come loose from the surface.

To achieve retro-reflectance, it is recommended that glass beads are strewn on the fresh paint coat.

When painting concrete surfaces the casting must be at least 4 weeks old and well-hardened so that all moisture from casting is bound and the surface dry. The moisture of the concrete to be painted must not exceed 5% by weight.

Painting equipment

NOTE! TEKNOROAD 3059 will react violently with zinc and metal alloys containing zinc, like brass. Thus metal surfaces gather some deposits, which will appear as small particles on the filters and nozzles. In worst cases the fittings will get blocked all together. That is why all the equipment which touches the paint is to be of stainless steel or acid proof steel.

Aluminium will not cause any deposits, but will corrode of the action of the paint. Therefore the use of aluminium should be avoided.

The painting equipment must be carefully cleaned if it has been used for applying other road marking paints, e.g. solvent-borne TEKNOROAD. Detailed cleaning instructions are given by Teknos. Always contact Teknos before using TEKNOROAD 3059 for the first time, in order to avoid failures and damages in application.

ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers. The paint dries extremely fast and therefore easily forms skin into an open vessel.

The information of 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 versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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