TEKNOS www.teknos.com

DATA SHEET 1921
3 18.06.2019

TEKNOCRYL AQUA PRIMER 3-00

Acrylate Primer

PAINT TYPE

TEKNOCRYL AQUA PRIMER 3-00 is a fast drying, one-pack water-borne universal primer that contains active anti-corrosive pigments.

USAGE

Due to the adhesive properties and overcoatability it is suitable for steel, zinc and aluminium surfaces as an universal primer and also for use in painting systems in corrosivity classes C2 and C3 as a primer.

SPECIAL PROPERTIES

TEKNOCRYL AQUA PRIMER 3-00 can be overcoated with many one- and two-pack paints such as water-borne acrylate, epoxy and polyurethane paints and also with solvent-borne epoxy, polyurethane and xylene-based alkyd paints.

TECHNICAL DATA

Solids

41 ±2% by volume

Total mass of solids

abt. 650 g/l

Volatile organic compound (VOC)

abt. 40 g/l

Recommended film thickness and theoretical spreading rate

Dry film (µm)	Wet film (µm)	Theoretical spreading rate (m²/l)
30	73	13,7
40	97	10,2
60	146	6,8

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 the application technique, surface conditions, overspray, etc.

Drying time, +23°C / 50% RH (dry film 30 µm)

- dust free (ISO 9117-3:2010) after 20 min
- touch dry (ISO 9117-5:2012) after 20 min

Overcoatable, 50% RH (dry film 30 µm)

surface temperature	with one-pack water-borne paints *)		with two-pack water-borne paints and with one-and two-pack solvent-borne paints *)	
	min.	max.	min.	max.
+15°C	after 6 h	-	after 12 h	-
+23°C	after 3 h	-	after 6 h	-

* See 'Overcoating'.

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

Thinner, clean up

Water

Finish

Matt

Colours

RAL-7035

SAFETY MARKINGS

See Safety Data Sheet.

PTO

DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:

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.

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 according to standard ISO 12944-5 to paint hot-dip-galvanized objects that are subjected to immersion strain. Painting of hot-dip-galvanized objects that are subjected to immersion strain must be discussed separately with Teknos.
It is recommended that new zinc-coated thin-plate structures are treated with sweep blast-cleaning (SaS). Surfaces that have been weathered to matt can be treated also with RENSA STEEL washing agent for galvanized surfaces.

ALUMINIUM SURFACES: Treat the surfaces with RENSA STEEL washing agent for galvanized surfaces. Surfaces that are exposed to weathering are also roughened up with sweep blast-cleaning (AlSaS) or sanding.

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.

Application conditions and drying

The surface to be painted must be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +15°C and the relative air humidity below 70%.
Additionally the temperature of the surface to be painted and the paint must be at least 3°C above the dew point of the ambient air.
Especially when applying with a spray the relative air humidity should be above 30% to avoid the onset of the drying process to be too fast.
Surface temperature, film thickness, drying temperature and ventilation affect the drying of the paint. The paint is dry when all water has evaporated from the paint film. It is essential that all painted surfaces have sufficient ventilation. If the painted surface will be exposed to weathering, moisture or low temperatures (below +10°C) thick paint films are to be avoided and the last coat must be allowed to dry for at least 40 hours (at +23°C) before exposure.
Low temperatures and insufficient ventilation slow down the drying process.

Application

Before use stir the paint thoroughly.

Apply preferably by airless spray, since only this method provides the recommended film thickness in a single operation. Use airless spray nozzle 0.013 - 0.018". The paint is sprayed evenly to the required film thickness. Special care should be taken when spraying edges, corners and welding joints. Small areas can also be painted with a brush, but in this case one additional coat has to be applied in order to achieve the required film thickness.

Cleaning of the equipment

When painting equipment used for application of solvent-borne paints is used for water-borne paints the equipment must be cleaned carefully:
1. Wash with solvent.
2. Wash with washing solvent for water-borne paints, e.g. TEKNOSOLV 6060.
3. Rinse with water.

When shifting from water-borne to solvent-borne paints act in reverse order.

Overcoating

TEKNOCRYL AQUA PRIMER 3-00 can be over coated with the following product group paints: TEKNOCRYL AQUA, TEKNODUR AQUA, TEKNOPOX AQUA, TEKNOLAC, TEKNOPLAST and TEKNODUR.

ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers. Do not transport or store the paint in temperatures below 0°C.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

MUST NOT FREEZE.

EN_1921_Tuoteseloste.pdf