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TECHNICAL DATA SHEET
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TEKNODUR COMBI 3560

Polyurea paint with high solids

3560-83

PAINT TYPE

TEKNODUR COMBI 3560-83 is a two pack polyurea paint where the hardener used is an aliphatic isocyanate resin.

USE

Is used in polyurethane systems when the topcoat is required to have good weather resistance. As the paint is anticorrosive pigmented it can be used as 1-layer paint on metal surfaces. Used as topcoat on metallised or zinc dust primed surfaces where a high resistance against corrosion is required

SPECIAL PROPERTIES

Provides good mechanical properties and good weather resistance.

TECHNICAL DATA

Mixing ratio

Paint: Base (Comp. A): 4.5 parts by volume
Hardener (Comp. B): TEKNODUR HARDENER 7226 1 part by volume

Potlife +23 °C

15 minutes

Solids

Paint: 78 ± 2 by volume

Total mass of solids

Paint: Approx. 1350 g/l

Volatile organic compound (VOC)

Paint: Approx. 240 g/l

Recommended film thickness and theoretical spreading rate

Dry film (µm)	Wet film (µm)	Theoretical spreading rate (m²/l)
200	256	3.91
240	308	3.25

Practical spreading rate

The values depend on the application technique, surface conditions, overspray, etc.

Drying time at +23 °C / 50 % RH (dry film 240 µm)

- dust free (ISO 1517:1973) After 40 minutes
- touch dray (DIN 53150:1995) After 50 minutes
- dry to handle (ISO 9117:1990) After 90 minutes
- forced drying, 35 °C / 50 % RH (dry film 240 µm) 60 minutes

- overcoatable (dry film 240 µm)

surface temperature	**by itself**	
	min.	max.
+5 °C	After 8 hours	After 14 days
+23 °C	After 1½ hour	After 7 days
+35 °C	After 1 hour	After 3 days

Thinner

TEKNOSOLV 1129, max. 5 %.

Clean up

TEKNOCLEAN 6220.

Finish

Paint: Semi-gloss

Colours

Per agreement.

PTO

HEALTH AND SAFETY

See Safety Data Sheet.

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 a preparation grade of SA 2½ (standard ISO 8501-1). Roughness profile medium to coarse with the blast additive grit (standard ISO 8503-01).

METALLISED SURFACES: Cleaning as described above.

Mixing of the components

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.

Application

Before use stir the paint thoroughly.
If required the paint is diluted with TEKNOSOLV 1129, however with max. 5 %. Do not use universal thinners, since they may contain alcohol, which will react with the hardener.
Apply with brush or airless spraying. Use nozzle size 0.015”-0.021”.
Before use clean the spray gun and container with the paint’s own thinner.

Application conditions

The surface to be painted must be dry and the recommended air humidity below 80 %. When coating and curing the temperature of the ambient air and surface shall be above -5 °C and the temperature of the paint above +15 °C during mixing and spraying. The temperature of the surface and paint must be at least 3 °C above the dew point of the air.

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.

ADDITIONAL INFORMATION

The hardener reacts with air humidity. Store in a cool and dry place in a tightly closed can. The storage stability is limited.

Use opened hardener within two weeks.

Further instructions regarding the preparation of the surface to be found in the standards EN ISO 12944-4 and ISO 8501-2.