

TEKNOHEAT 500

Silicone paint

TEKNOHEAT 500 is a silicone paint that withstands high temperatures.

Used as a top coat in zinc silicate/silicone systems on hot surfaces indoors and outdoors, e.g. flues, stoves, oven doors and exhaust pipes. Steel surfaces that are temporarily damp must be primed with appropriate anticorrosive zinc dust paints.

The paint forms a film that withstands permanent heat up to +200°C - +400°C depending on the colour (see section Colours). Colours which are used in +400°C can momentary withstand heat up to +500°C. Aluminium colour (RAL-9006) withstands heat up to +650°C.

TECHNICAL DATA

Recommended substrate	Steel			
Binder	Silicone			
Solids	25 ±2% by volume			
Total mass of solids	Approx. 450 g/l			
Volatile organic compound (VOC)	Approx. 645 g/l (DIRECTIVE 2010/75/EU)			
	The VOC value provided is the average value for factory produced products, and			
	consequently it will be subject to variations between individual products			
	covered by this Technical Data Sheet.			
Theoretical spreading rate	Dry film (µm)	Wet film (µm)	Theoretical spreading rate	
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	15	60	16.7	
	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.			
Colours	+200°C: RAL-1011, RAL-2001, RAL-3011, RAL-6005, RAL-8017			
	+400°C: RAL-3009, RAL-7016, RAL-7021, RAL-7024, RAL-9005, RAL-9007			
	+650°C: RAL-9006			
Tinting system	Teknotint			
Gloss (60°)	Matt			
Thinner	TEKNOSOLV 9502, TEKNOSOLV 1639.			
Storage	Must be stored tightly closed and kept cool and dry.			



DIREC	TION F	OR U	SE

Overcoatable	Before a new coat is applied the first coat must be heated to the operating temperature: minimum of +200°C for 2 h. Increase in film thickness and rise in the relative humidity of the air in the drying	
Overcoatable		
	by itself	
	good ventilation.	
	NOTE! When the paint film is for the first time heated to more than +200°C, acrid combustion gases are formed in the hardening process. Take then care of	
	min $+200^{\circ}$ C.	
- through dry	30 min (ISO 9117-1:2009) The paint film obtains the final hardness when it is dried for added 2 hours at	
- touch dry	20 min (ISO 9117-5:2012)	
- dust free	10 min (ISO 9117-3:2010)	
Drying time	- +23°C / 50% RH (dry film 15 μm)	
	point of the ambient air.	
	be painted must not be above +50°C. Additionally, the temperature of the surface to be treated and the product must be at least +3°C above the dew	
	+5°C and the relative air humidity below 80%. The temperature of the surface to	
	the temperature of the ambient air, the surface and the product shall be above	
Application conditions	The surface to be treated must be dry. During the application and drying period	
Application	Stir thoroughly before use. Suitable airless nozzle size 0.013 - 0.017"	
Application method	Airless spraying, Conventional spraying, Brush, Roller	
	Prefabrication primer: KORRO SS zinc silicate prefabrication primer can be used, when required.	
	standards EN ISO 12944-4 and ISO 8501-2.	
	Additional instructive information for surface preparation can be found in	
	surface will not get dirty or damp before the subsequent treatment.	
	The place and time of the preparation are to be chosen so that the prepared	
	grade Sa 2½ (standard ISO 8501-1).	
	STEEL SURFACES: Remove mill scale and rust by blast cleaning to preparation	
	and dirt by washing the surfaces e.g. with RENSA STEEL washing agent for galvanized surfaces.	
Surface preparation	THIN-PLATE SURFACES: Brush corroded areas carefully and remove all grease	



HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

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