

**TEKNOHEAT 500**
Silicone Paint

PAINT TYPE	TEKNOHEAT 500 is a silicone paint that withstands high temperatures.
USAGE	Used as a top coat in zinc silicate/silicone system K37 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.
SPECIAL PROPERTIES	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

Solids	25 ±2% by volume		
Total mass of solids	abt. 420 g/l		
Volatile organic compound (VOC)	abt. 670 g/l		
Recommended film thickness and theoretical spreading rate	Dry film (µm)	Wet film (µm)	Theoretical spreading rate (m²/l)
	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.

Drying time at +23°C / 50% RH (dry film 15 µm)
- dust free (ISO 9117-3:2010) after 10 min
- touch dry (ISO 9117-5:2012) after 20 min
- through-dry (ISO 9117-1:2009) after 30 min

The paint film obtains the final hardness when it is dried for added 2 hours at min + 200°C.

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 good ventilation.

Overcoatable (dry film 15 µm)

by itself
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 space usually slow down the drying process.

Thinner, clean up TEKNOSOLV 9502, TEKNOSOLV 1639

Finish Matt

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

SAFETY MARKINGS See Safety Data Sheet.

DIRECTION FOR USE**Surface preparation**

THIN-PLATE SURFACES: Brush corroded areas carefully and remove all grease and dirt by washing the surfaces e.g. with RENSA STEEL washing agent for galvanized surfaces.

STEEL SURFACES: Remove mill scale and rust by blast-cleaning to preparation grade Sa 2½ (ISO 8501-1).

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.

Prefabrication primer

KORRO SS Zinc Silicate Prefabrication Primer can be used, when required.

Application conditions

The surface to be painted has to be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +5°C and the relative air humidity below 80%.

The temperature of the surface to be painted must not be above +50°C.

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.

Application

Before use stir the paint thoroughly.

Apply by brush, roller, conventional spray or airless spray. Use airless spray nozzle 0.013 - 0.017".

When applying by conventional spray, thin the paint by adding 20 - 30% TEKNOSOLV 9502 or TEKNOSOLV 1639.

ADDITIONAL INFORMATION

Must be stored tightly closed and kept cool and dry.

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

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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