

# Material Information



**Product Name:** topsecure Security varnish, HT  
High Temperatur (topsecure Sicherheitslack- HT)

Valid for

**Material Numbers:** 9x xx xx ff

Version 1.3\_E  
Release Date 06/06/2015

## General Description:

This is a safety varnish that can be used at higher temperatures, both for sealing, as well as for securing bolts and nuts. With one (or more) safety features inside, HT Security varnish can be used for proof authenticity of products as well as opening detection or a combination of these applications. Because of its ruggedness, HT Security varnish can be used as proof of opening and/or authenticity protection even at high temperatures in tough environment (e.g. vehicles). A first authenticity identification of the HT-Security varnish is possible directly at the object, by using one (or more) of the offered identification tools.

HT-topsecure varnish is available on different security levels, which means a different variety of open- and hidden security markers.

Colours: Blue, others available on request.

Density: about 1,15 g/cm<sup>3</sup> (at 20°C)  
Viskosity: > 70 s (ISO 6 mm) (at 23°C)

Solvent content:  
organic solvent < 70%

Filler: Melamin and resin compound, others

Filling ratio: 1% / 3% / 5%, others available on request

## Instructions for use:

The substrate on which the HT-Security varnish is to be applied must be clean, solid and dry, free of grease and oil. The HT-Security varnish can be used on the most metallic surfaces and many other substrates. The HT-Security varnish has a high viscosity and can be applied by brush or dispenser. Depending on the type and number of application (s), layer thicknesses of about 0.17 mm to several mm thickness can be realized. Processing temperature for application > 5 ° C.

Desiccation / Hardening: The HT-Security varnish dries in air. Drying time varies, depending from thickness of layer, from some hours to some days. Warm air accelerates the hardening process. Complete hardening after temperature impact.

Resistance: The HT-Security varnish is, after proper application and hardening at substrate resistant to:

+ Action of a power steam jet - 1 min.\* no change

\* at 150 bar pressure steam jet, 40 cm distance, 160° swivel angle

**Temperature resistance: - 40°C up to + 250°C (in hardened condition)**

**Durability: In glass or metal container approx. 6 months in cooled environment ≤ 5°C, in plastic container or plastic cartridge some weeks.**

Handling / storage / disposal: Note Material Data Sheet 1907/2006/EG – REACH (DE)

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