

Technical Information

senotherm® –UHT-Hydro



Product series:
3590

Waterbased two-pack airdrying coating material offering a temperature resistance exceeding 600° C.

PRODUCT DESCRIPTION

senotherm®-UHT-Hydro finishes of series -3590- are based on ultra-high temperature-resistant silicone binders and temperature-resistant pigments. Use of this type of coatings does not cause any silicone contamination. An interaction with other products, however, can not be excluded.

The system consists of paint of series 3590 and hardener 19-3591-705520. The mixing ratio paint :hardener is 100 : 33 by weight

To achieve the unique properties of the system it is necessary to mature the material prior to application. Key parameters for the maturing process are shearing force, temperature and time. The higher the shearing force or temperature, the shorter the time. The mixture of paint and hardener must be stirred for 45 minutes with a suitable mixer and an appropriate stirring disc at 2000 rpm. As the material gets warm during this process it is recommended to allow the material to cool down to room temperature over night before processing.

In contrast to conventional temperature-resistant coating system, cross-linking of the film already takes place at room temperature. Apart from the fact that surface hardness is consequently already obtained at room temperature, coated surfaces are further virtually free from fumes and odours when being put into operation.

By this means the end user's steadily rising awareness of health and environmental protection has also been taken into account.

senotherm® -UHT-Hydro is available in various colours and metallics.

TYPICAL FIELDS OF APPLICATION

Stoves, chimneys, heating insets, stovepipes, accessories and other appliances and lines subjected to high thermal stress.

GENERAL APPLICATION RECOMMENDATIONS

System	: One-coat – The dried system is not recoatable with itself.
Substrate	: Steel, cast iron. Substrates have to be tested with respect to suitability
Pretreatment	: Substrate must be free from grease, corrosion and other contaminations. Degrease and sandblasting
Application method	: Conventional air-atomizing spray. Attention: Storage tanks and containers must always be closed in order to avoid drying on the surface, as dried particles can not be stirred into the lacquer again.
Cure	: Dry to touch after approx. 30 min. at room temperature of 20° C and at 25 microns DFT. Coating material already fully reacts at room temperature. During the drying process methyl alcohol is released. Therefore it is necessary to take care for proper ventilation. Full mechanical resistances and properties are achieved after a reaction time of approx. 7 days. At temperatures below 10° C there is no sufficient through drying.
Rec. film thickness	: 25 ± 5 microns
pot life	: Under standard conditions the pot life is 48 h, however, it can be prolonged by means of a storage at temperatures between 5 and 20 °C. Temperatures above 20 °C as well as different altering condition may reduce pot life.
Shelf life	: At least 6 months in sealed original packaging. Material is to be protected from heat and frost. Storage temperature should preferably be between +5 and +35° C.

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The above indications were determined under lab conditions and in practice as being reference values. They correspond to today's developments in technique. Application equipment and application technique are beyond our influence. This information is given to the best of our knowledge, however, no liability or obligation whatsoever is assumed in connection with it.