

WACKER® S 100

ETHYL SILICATES

Product description

WACKER® S 100 is an ethyl silicate binder with a flash point >21°C.

Special features

WACKER® S 100 is suitable for the formulation of ready-to-use one-pack systems with a flash point >21°C.

WACKER® S 100 is a binder system with out-standing anti-settling properties. Paints formulated with it are easy to stir up even if they have been stored for a long time. Once a coating has been applied, it will cure under the influence of atmospheric moisture and can be easily overpainted with any standard paint.

Application

Zinc-rich paints based on WACKER® S 100 may be used as primers or on their own.

They protect steel from corrosion:

- in aggressive industrial and coastal atmospheres
- at high temperatures (up to 420°C)
- in the presence of chemicals

Processing

To prepare a ready-to-use zinc-rich paint, add the anti-settling agents and zinc dust in that order to WACKER® S 100, dispersing them with a high-speed mixer. Solvents can be used to adjust the desired SiO₂

content or the desired viscosity of the formulation. Add the solvents while the stirrer is at low speed. The temperature of the premix should not be higher than 40°C.

Once the zinc-rich paint has been applied, it must be fully exposed to atmospheric moisture (approx. 50% r. h.). The binder will then hydrolyze and cure very rapidly to produce a hard coating.

Storage

WACKER® S 100 must be stored in the tightly closed original container under exclusion of moisture.

The "Best use before end" date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets.

They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

| Typical general characteristics | Inspection Method | Value |
|--|--------------------------|---|
| Appearance | | slightly cloudy, yellowish, thixotropic liquid |
| SiO ₂ -content | | approx. 20,5 % |
| Density at 20 °C | | approx. 0,99 g/cm ³ |
| Viscosity, dynamic at 20 °C | | approx. 100 mPa.s |
| Flash point | ISO 3679 | 25 °C |
| Dilution | | miscible with low-boiling aliphatic and aromatic solvents |

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

WACKER® is a trademark of Wacker Chemie AG.

For technical, quality, or product safety questions, please contact:

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info.silicones@wacker.com

www.wacker.com