

## Teroson SI 34

June 2017

### PRODUCT DESCRIPTION

Teroson SI 34 provides the following product characteristics:

<b>Technology</b>	Silicone
<b>Product Type</b>	Sealant
<b>Application</b>	Assembly
<b>Appearance</b>	Transparent, white, grey, black

Teroson SI 34 is a gun-grade, solvent free, one component sealant based on neutral curing silicone rubber which cures by reaction with moisture to a soft elastic product.

The skin formation and curing times are dependent on humidity and temperature, and the curing time also depends on joint depth.

By increasing the temperature and moisture these times can be reduced; low temperature as well as low moisture retard the process

After full curing Teroson SI 34 is odourless, light resistant and demonstrates good adhesion properties and a good chemical resistance.

Due to its curing system, no corrosion in edge areas, as well as on laminated materials is to be expected.

### APPLICATION AREAS

Teroson SI 34 is used for the following applications:

- Sealing aluminum, steel (stainless and stove enamelled) and rigid PVC parapet elements
- Sealing Expansion and butt joints on aluminum facades, rigid PVC frame constructions and in ventilation systems
- Sealing acrylic glass constructions
- In machine and apparatus construction: sealing steel to steel, aluminum, plastic, ceramics, glass, enamel e.g. household appliances (refrigerator, dish washer, oven) as well as containers, grinding, drying and washing equipment
- in the vehicle industry: seam and joint sealing for railway carriages, vehicle build-ups, caravans, buses, tractors, trucks

### TECHNICAL DATA

(Typical Test Results)

Density, white, Grey, black, g/cm <sup>3</sup>	approx. 1.38
Density, transparent, g/cm <sup>3</sup>	approx. 1.03
Odour	odourless
Consistency	pasty
Curing mechanism	humidity curing
Curing System:	alkoxy
Skin formation time*, min:	approx. 10
Cure rate (per 24 h)*, mm:	approx. 3
Shore-A-hardness (DIN 53505):	approx. 20-25
Tensile strength (DIN 53504), approx. > 1.4 MPa:	
Elongation at break (DIN 53504), %:	> 600
Stress at 100 % elongation (DIN 53504), MPa:	approx. 0.4-0.5
Volume change (DIN 52451), %:	max. 5
Permitted permanent movement, %:	25
Application Temperature, °C:	5 to 40
In service temperature range, °C:	-40 to 150
Short exposure (up to 1 h), °C:	200
*ISO 291 Standard climate	23° C, 50 % relative humidity

### DIRECTIONS OF USE

### PRELIMINARY STATEMENT

Prior to application it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

### PRETREATMENT

The substrates must be clean, dry, oil and grease free. For cleaning we recommend Teroson VR 10, VR 40 or Teroson SB 450. Teroson SI 34 bonds well to many substrates. Normally no primer is needed on glass, glazed ceramics, polished aluminum, some metals and Plastics. However, for metals and plastics we recommend the use of cleaner Teroson SB 450.

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## APPLICATION

Application from 300 ml cartridges is made with the Teroson Hand or Air Pressure gun. In the case of compressed air application a pressure of 2 to 5 bar is required, depending on nozzle aperture and speed of application. When applying Teroson SI 34 in closed rooms, ensure good ventilation during the curing process.

## CLEANING

Uncured or not fully cured Teroson SI 34 can first be removed by a knife or a spatula. The remaining layer can be washed off with Teroson VR 40 or similar products. Fully cured sealant can only be removed mechanically by means of a suitable tool (e.g. sharp blade) or by burning off, for the product is insoluble in all common solvents.

## Smoothing

If smoothing of the bead is necessary this has to be done within the skin formation time. Teroson SI 34 can be smoothed with soapy water. Where joint edges have been masked the masking tape has to be removed immediately to avoid tearing of the fresh forming skin.

## STORAGE

Frost sensitive:	No
Recommended storage temperature, °C:	10 to 25
Shelf life (in unopened original packaging), months:	12

## ADDITIONAL INFORMATION

### Disclaimer

#### Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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