

TEROSON RB 81

January 2023

PRODUCT DESCRIPTION

TEROSON RB 81 provides the following product characteristics:

Technology	Butyl Rubber
Product Type	Sealant
Application	Assembly

TEROSON RB 81 is a high quality, strongly adhesive sealing tape based on butyl rubber with plasto-elastic properties. The particularly strong tackiness provides a firm lamination between the contact surfaces and, therefore, a reliable sealing effect. TEROSON RB 81 is self-welding. Higher temperature influence for a short time has no adverse effect on quality and funktion. TEROSON RB 81 allows to re-open the sealed joints, e.g. for service, repair or recycling.

Application Areas:

TEROSON RB 81 can be used for sealing in the following areas:

- Sealing and antflutter of trim panels, protective and covering trims, protective panels in the container and tank industry
- Sealing of overlaps in steel, steel sheet, aluminum, glass and plastic constructions in sheet metal fabricating industry, in the electrical industry or in apparatus and machinery engineering
- Bonding of PE foils, plastic sheets (e.g. EPDM) or parts in plastic engineering and manufacture
- As protection against contact corrosion between steel and nonferrous metals
- In the electrical industry for sealing and bedding parts with low vibration

TECHNICAL DATA

Appearance	black
Density, g/cm ³	approx. 1.26
Consistency	soft plasto-elastic
Solids, %	100
Elastograph value, Nm	0.115
Penetration (cone 150 g, 6 s, 23°C), mm	71 1/10
Tack	very strong
Paint compatibility:	can be painted
In service temperature range, °C	-40 to 80
Short exposure (up to 1 h), °C	200

DIRECTIONS FOR 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.

Pre-Treatment:

The substrates must be clean, dry, free of oil, grease and other anti-adhesive contaminants (e.g. release agents). For cleaning Cleaner FL is suitable.

Application:

Application as sealing tape

Unroll TEROSON RB 81 and cut it to the desired length. Then apply the tape to the surface requiring sealing and press it on. Experience has shown that it is best not to remove the release paper or film when unrolling the tape, but only after it has been applied and pressed on. In this way any unwanted stretching of the tape during application can be prevented and the sealing tape is protected from dirt. After peeling off the release paper, press on the mating part and fix the entire assembly mechanically, if necessary.

Application from hobbocks and drums

To apply TEROSON RB 81 from drums or hobbocks extruder spiral-, piston-, gear- or rotary-pumps can be used. Here, the pump and the follower plate, hose and applicator must be heatable. By heating TEROSON RB 81 gets plasticized and hence pumpable.

Equipment with separate heating circuits and independent control turned out to be favorable, with the lowest temperature at the follower plate and the highest temperature at the application nozzle. The processing temperatures are between 80°C and 160°C, with the optimum range depending on the desired output and other specific requirements. On request, we will provide you with the needed information on suitable application equipment.

The heated application pistol can be used either manually, on a fixed basis, or attached to an automatic application system (robot, CNC). The application nozzle may be designed according to individual requirements.

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

- Hazards identification**
- Transport information**
- Regulatory information**

Storage:

Frost sensitive	No
Recommended storage temperature, °C	5 to 35
Shelf- life, months (in original packaging)	24

ADDITIONAL INFORMATION**Disclaimer**

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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.1