

## Terostat-81

Permanently Plastic Sealant  
as a Sealing Strip or Hot Pumpable  
for Application in Industry and Craft  
Flexible and Strongly Adhesive

Base: Butyl Rubber

Status: 19.09.2003

### Product Description

Terostat-81 is a black, high quality, strongly adhesive sealing band 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. Terostat-81 is self-welding. Higher temperature influence for a short time has no adverse effect on quality and function.

Terostat-81 is aging resistant and is used for numerous application purposes due to its excellent adhesion to cleaned metallic and non-metallic material surfaces.

For industrial line production Terostat-81 is also available in 50 l hobbicks and can be applied by suitable equipment which can be heated.

### Application Areas

Terostat-81 is used for sealing and bonding in the areas listed below:

- sealing, antflutter and bonding of trim panels, protective and covering trims, protective panels in the container and tank manufacture
- sealing of overlapping steel, steel sheet, aluminium, glass and plastic constructions in the sheet 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

Colour:	black
Density:	approx. 1.26 g/cm <sup>3</sup>
Consistency:	soft, plasto-elastic
Solids:	100 %
Elastograph value:	ca. 0.115 Nm
Penetration (cone 150 g, 6 s, 23°C):	ca. 65 1/10 mm
Tackiness:	very strong
Overpaintability:	can be painted
In service temperature range:	- 40°C to 80°C
Temperature resistance:	200°C
Short exposure (up to 1h)	

### Preliminary statement

Prior to application it is necessary to read the **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.



## Preparation for sealing

The surfaces to be sealed must be dry, free of oil, dust, grease and other contaminants (e.g. release agents). On porous substrates we recommend the use of Primer-188. Precheck compatibility with the substrates prior to use on plastics.

## Application as sealing strip

Terostat-81 is cut to the required length and then applied to the substrates to be sealed and lightly pressed on. We recommend that removal of the release paper or release foil occurs only after application, and pressing on. In that way, an unwanted stretching of the strip during unrolling can be prevented, and the sealing band is protected against contamination as well. After pulling off the release paper the counterpart is put on and - if necessary - the entire part is mechanically fixed.

## Application from hobbocks and drums

Piston-, gear-, screw or rotary pumps are suitable for the application of Terostat-81 in hobbocks and drums. Pump, as well as follower plate, hose and application nozzle must be heatable. Due to the heated follower plate, Terostat-81 softens at the surface and is thus pumpable.

Equipment with divided heating circuits and independent control has proved advantageous, with the lowest temperature at the follower plate and the highest temperature at the application nozzle. The processing temperatures lie between 80-120°C, with the optimum range depending on the desired output and other individual requirements.

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

If required, we will provide you with the necessary information on suitable application equipment.

## Storage

Frost-sensitive	no
Recommended storage temperature	10°C to 25°C
Shelf-life	24 months (virtually unlimited when stored cool and dry)

## Packaging

Rectangular profiles of various diameter on reels and single reels

Hobbock 50 l

## Hazard Indications/

## Safety Recommendations/

## Transport Regulations

see Safety Data Sheet

## Important

The data above, particularly the recommendations for application and use of our products is based on our knowledge and experience. Due to different materials and conditions of application which are beyond our knowledge and control we strongly recommend carrying out sufficient tests in order to ensure that our products are suitable for the intended process and applications. Except for willful acts any liability based on such recommendations or any oral advice is hereby expressly excluded.

**This Technical Data Sheet supersedes all previous editions.**

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