

# DEHESIVE<sup>®</sup> PSA 850 R



## Pressure Sensitive Adhesives

DEHESIVE<sup>®</sup> PSA 850 R is a solvent based Silicone Pressure Sensitive Adhesive intended in particular for coating on films, but also other substrates.

### Properties

- excellent surface tack
- high adhesion levels
- high flexibility
- excellent thermal stability
- good resistance to moisture, weathering and ageing

### Specific features

- Solvent-based

## Technical data

### General Characteristics

Property	Condition	Value	Method
Appearance	-	colorless	-
Content of active agent	-	62 %	-
Density	-	approx. 1 g/cm <sup>3</sup>	-
Flash point	-	6 °C	DIN 51755
Ignition temperature	-	535 °C	DIN 51794
Viscosity, dynamic	-	approx. 60000 mPa·s	-

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

## Applications

- Si-PSA

### Application details

DEHESIVE® PSA 850 R can be used for coating of several film-substrates such as Polyester, Polyamide, Polyimide and others substrates for manufacture of different silicone pressure sensitive adhesive tapes and other articles.

#### Processing

DEHESIVE® PSA 850 R can be diluted with aliphatic or aromatic solvent (e.g. toluene, white spirit, naphtha). It is typically blended with addition curing silicone PSA system (e.g. DEHESIVE® PSA 765). For an optimum balance of surface tack, adhesion strength and cohesive strength it is necessary to cure the coated DEHESIVE® PSA 850 R for 1 – 2 min. at 140 – 150°C by using adding DEHESIVE® 765 and catalyst C05 or PT 5. It is recommended to remove the solvent before curing process at 80 – 90 °C for ~0.5 min. Higher temperature can cause incorporation of the solvent into the adhesive film, which can impair the adhesive properties.

For tape applications DEHESIVE® PSA 850 R can be formulated with a peroxide-crosslinker e.g. Bis-(2,4-dichlorobenzoyl peroxide, which is added in a concentration of 0.5 –3.0 wt.%. With higher peroxide levels the crosslinking density and cohesion strength can be increased, while adhesion strength is lowered.

For an optimum balance of surface tack, adhesion strength and cohesive strength it is necessary to cure the coated DEHESIVE® PSA 850 R for 2 – 5 min. at 140 – 150°C by using Bis-(2,4-dichlorobenzoylperoxide and at 170 – 200°C in case of Dibenzoylperoxide is used. It is recommended to remove the solvent before curing process at 80 – 90 °C for 2 – 4 min. Higher temperature can cause premature decomposition of the peroxide-crosslinker and

incorporation of the solvent into the adhesive-film,  
which can impair the adhesive properties.

## Packaging and storage

### Storage

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.

### QR Code DEHESIVE® PSA 850 R



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

**Wacker Chemie AG**, Hanns-Seidel-Platz 4, 81737 Munich, Germany  
productinformation@wacker.com, www.wacker.com

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.