



# Jowatherm-Reaktant<sup>®</sup> MR

## 630.99



**New monomer-reduced PUR adhesive for textile lamination**

**No GHS labelling necessary\***

**No P and H statements necessary\***

**Increased health protection**

(\*according to EU regulation 1272/2008 and EU directive 2008/58/EC)

One-component moisture-curing PUR hot melt adhesives have been established in the textile industry for many years.

The products are characterised by outstanding bonding properties and resistance against hydrolysis, high temperatures, and UV radiation. In general, these conventional PUR hot melt adhesives contain an excess of free monomer isocyanate (usually 4-4'-Methylene diphenyl diisocyanate – in short MDI) of approx. 2 %. Since 2012, products containing isocyanate with an MDI (CAS No. 101-68-8) content of 0.1 % or higher must be labelled with the GHS pictogram no. 8 (health hazard) and the relevant safety information (H and P statements). Depending on the concentration, isocyanates have an irritating effect on the skin, mucosa, eyes, and the respiratory system. MDI is necessary for the crosslinking reaction which determines the superior bonding characteristics.

Adhesives with an MDI content of less than 0.1 % are not subject to labelling requirements. Since the early 2000s, Jowat has already been working successfully on alternative technologies with a content below that limit.

The **Jowatherm-Reaktant® MR** (Monomer-Reduced) product group supplies many PUR hot melt adhesives which are not subject to hazardous labelling requirements for a wide range of applications.

**Jowatherm-Reaktant® MR 630.99** for general textile lamination is the newest addition to this product group. The PUR hot melt adhesive can be used for textile to textile lamination as well as for textile to membrane lamination on standard production lines with gravure roller or slot nozzle applicators. The requirements according to ECO PASSPORT by OEKO-TEX® are met.

## Jowatherm-Reaktant® MR 630.99

For laminating textiles and membranes. Good adhesion, medium initial strength.

Polymer basis		PUR MR
Processing temperature	[°C]	100 - 130
Viscosity Brookfield at 110 °C	[mPas]	9,000
Reaction time	[days]	5 - 7
Appearance		colourless



## Jowat® 930.34

For flushing applicator systems, melt units and hoses for PUR hot melts after extended downtimes or during complete standstill. Contains a reaction inhibitor to prevent the chemical reaction.

Polymer basis		PUR MR
Processing temperature	[°C]	100 - 140
Viscosity Brookfield at 110 °C	[mPas]	9,000
Softening range	[°C]	approx. 80
Appearance		red granulate



## Jowat® 930.22

For cleaning roller applicator systems.

Polymer basis		PUR MR
Processing temperature	[°C]	90 - 150
Softening range	[°C]	approx. 55
Appearance		white powder

The information given in this leaflet is based on test results from our laboratories as well as on experience gained in the field, and does in no way constitute any guarantee of properties. Due to the wide range of different applications, substrates, and processing methods beyond our control, no liability may be derived from these indications nor from the information provided by our free technical advisory service. Before processing, please request the corresponding data sheet and observe the information in it! Customer trials under everyday conditions, testing for suitability at normal processing conditions, and appropriate fit-for-purpose testing are absolutely necessary. For the specifications as well as further information, please refer to the latest technical data sheets.