

Micro-Emission (ME)

PUR Hotmelt Adhesives



Recent developments of PUR hotmelt adhesives: reduced monomeric diisocyanate content for better health and occupational safety



The importance of micro-emission in connection with PUR hotmelt adhesives

A contribution to the significant improvement of occupational health and safety

PUR hotmelt adhesives contain isocyanates, which are required for the crosslinking reaction. Chemical crosslinking creates the outstanding properties of PUR hotmelt adhesives, such as excellent heat and moisture resistance.

Isocyanate exists in both polymer-bound form and, in small quantities, in monomeric form. When adhesives melt during

processing, vapors can be generated that contain monomeric diisocyanate. This can lead to respiratory sensitization. For this reason, such products must be labeled accordingly with the GHS symbol 08.



KLEIBERIT® micro-emission PUR hotmelts contain less than 0.1% of monomeric diisocyanate. This eliminates the need for training, as well as the labelling requirement of the PUR adhesive as a hazardous material.

By using KLEIBERIT® ME hotmelt adhesives, you not only release yourself and your employees from the training obligation, but as a company you also ensure improved health and occupational safety for your employees.



KLEIBERIT® offers a variety of micro-emission (ME) hotmelt adhesives for a wide range of applications.

In addition to improving health and occupational safety, the primary objective was to replace the existing PUR hotmelt adhesives with the same performance. A conversion or even an expansion of existing equipment is not necessary.

ME Automotive

Product	Application examples/Characteristics
KLEIBERIT 703.3.50	Optimized for nozzle application heads. Very high initial strength, short open time
KLEIBERIT 713.4.54	Medium short open time, excellent spray ability
KLEIBERIT 713.7.50	Very high initial strength, especially suitable for complex 3D shapes, optimized for nozzle application
KLEIBERIT 713.7.54	Very high initial strength, especially suitable for complex 3D shapes, can be processed with a roller coater
KLEIBERIT 713.7.85	Contains approx. 42 % biobased raw materials, very high initial strength, especially suitable for complex 3D shapes, can be processed with a roller coater



ME Bookbinding

Product	Application examples/Characteristics
KLEIBERIT 712.3.00	Low processing temperature, high initial strength, short open time, spine gluing, high quality catalogues, brochures and books



ME Filter

Product	Application examples/Characteristics
KLEIBERIT 713.9.50	Very fine and homogenous spray pattern, long open time, suitable for carbon filter bonding



ME Flat Lamination/Production of sandwich elements

Product	Application examples/Characteristics
KLEIBERIT 706.1.50	Suitable for all laminates due to wide adhesion spectrum and good initial strength. IMO certified
KLEIBERIT 706.4.50	Very high initial strength. Especially suitable to bond porous foams with a top layer. IMO certified
KLEIBERIT 709.1.50	Excellent adhesion to metals and anorganic substrates. Suitable for the bonding of aluminium honeycomb sandwich plates



ME Assembly

Product	Application examples/Characteristics
KLEIBERIT 703.3.50	Optimized for nozzle application heads. Very high initial strength, short open time
KLEIBERIT 703.6.02	100% transparent bonding joint, lightfast

ME Textile Lamination

Product	Application examples/Characteristics
KLEIBERIT 701.3.50	High initial strength, good washing stability 95 °C, sports and underwear
KLEIBERIT 701.8.00	Lightfast, very high initial strength, short open time, transparency, pleated blinds



KLEIBERIT® ME PUR hotmelt adhesives are performance-equivalent alternatives to the well-known and proven KLEIBERIT® PUR hotmelt adhesives. It is not necessary to expand or modify production facilities.

Our engineers have decades of experience in bonding a wide variety of material combinations. They are familiar with the machines and application methods on the market and are highly committed to developing tailor-made bonding processes together with our customers.

Would you like advice or do you need more detailed information on our products or training in accordance with the REACH restriction regulation? Together we will find the right solutions and products for your individual process.

Let us advise you or visit our website:

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