

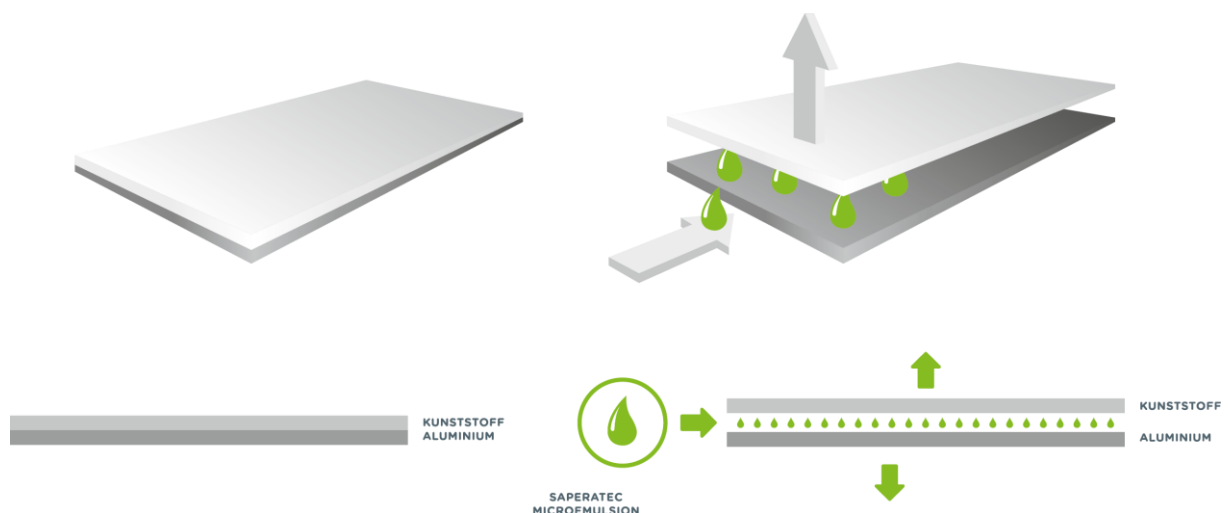
Saperatec

Separating composite materials with micro-emulsions

Saperatec provides a novel and unique way to separate composite materials into their constituent components by applying micro-emulsions. These micro-emulsions harness the effect of surfactants and ensure the separation process in the recycling facility. The result is reusable individual materials and thus 100% recycling of the composite material. Examples include multilayer packaging materials, used beverage cartons and laminated glass. Recovering all constituent materials allows a sustainable management of raw materials and economically advantageous recycling operations at the same time.

Saperatec has developed these highly specialised micro-emulsions which are based on surfactants. The micro-emulsion breaks down the composite material into its various components without losing or transforming any of the materials. This physical separation principle is implemented in an industrial recycling process, for which Saperatec operates an industrial pilot plant at its site in Bielefeld.

The unique feature is that the constituent components of the composite can be fully recovered and re-introduced to the materials cycle. This allows the maximum value creation and is therefore interesting both from an ecological and economical point of view. Furthermore, the process is energy-saving (room temperature) and the micro-emulsion is being circulated and re-used.





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