ECOBULK WITH SCHÜTZ IMPELLER –
for safe and efficient stirring processes
Optimum protection for your filling products – also during mixing and stirring processes.

Every time the packaging is opened, unwanted substances and particles can get inside. This is a particular problem in mixing and stirring processes performed with multiple-use agitators. With the SCHÜTZ IMPELLER you can eliminate this risk and save costs while at the same time increasing process safety and user friendliness.

The SCHÜTZ IMPELLER is ideal for packaged products that need to be stirred or mixed before emptying, e.g.:

- Paints and varnishes
- Foods and pharmaceuticals
- Adhesives and sealants
- Other viscous products
- Other chemicals
We supply the ECOBULK with a one-way stirrer.

- Depending on the process and container configuration the container can be filled without removing the IMPELLER.
- After filling the ECOBULK remains closed throughout the entire supply chain right until the filling product is discharged – including during stirring processes.
- There is no risk of contamination caused by product residues on multiple-use stirrers, hence eliminating the need for time-consuming cleaning and controls.
- Existing agitator drives can be easily and quickly attached to the SCHÜTZ IMPELLER.
- Highest level of health protection: all contact with hazardous filling products is completely avoided, including the stirring process.
- After emptying the whole container is collected by SCHÜTZ, and the IMPELLER is 100% recycled for materials.

Discover the new full solution for more safety and efficiency in your supply chain:

ECO BULK with the SCHÜTZ IMPELLER!

Eliminating the risk of contamination

With the SCHÜTZ IMPELLER the ECOBULK can remain closed throughout the entire supply chain right through to emptying!
An overview of the system – ECOBULK with the SCHÜTZ IMPELLER.

SCHÜTZ IMPELLER
The one-way stirrer is attached to the ECOBULK screw cap:
- Fits filling openings DN 150 or DN 225
- Span approx. 145 mm when closed and 422 mm with wings fully open
- External components made completely of HDPE
- Can be used in combination with an additional Dip-Tube system

PERFORMANCE
The bucket agitator enables an efficient mixing process at a low speed. Even at a speed of 80–200 rev/min (depending on the product), effective product mixing takes place due to the special form of the impeller. The advantage: Through the low speed, the filling product is gently mixed without the addition of air or formation of foam and can therefore be used directly.

Stirring tests with the IMPELLER confirm the excellent results:
- Viscosities up to a min. of 5000 mPas can easily be stirred
- Higher viscosities subject to individual tests

Suitable for all 1,000 and 1,250 litre versions of the following ECOBULK models:

ECOBULK MX  ECOBULK SX-EX  ECOBULK HX
FILLING
Depending on the process and the configuration, the container can be filled with or without opening the screw cap:
- Through a separate S56 x 4 bung: ideal for bottom-up filling, large screw cap remains closed
- Through the screw cap: the IMPELLER is removed and replaced again after filling

DRIVE ADAPTION
The SCHÜTZ IMPELLER can be attached to all conventional stirring drives:
- Prior to use, a steel shaft is inserted into the hollow shaft of the IMPELLER
- The dimensions and the geometry of the steel shaft must be configured to fit the drive that is being used
- The steel shaft does not come into contact with the filling product and can therefore be removed after use, without any problems, and reused again

Detailed information about filling, drives, steel shafts and stirrers can be found in the IMPELLER Operating Manual which we will be happy to provide on request.

Suitable for Ex-Zones 1 & 2
Achieve the highest economic efficiency in your supply chain!

With ECOBULK including the SCHÜTZ IMPELLER you can save time and money along your entire supply chain compared with conventional multi-trip containers made of stainless steel. This system helps to prevent any form of contamination in the filling product and the expense associated with cleaning, thus helping you to avoid additional costs.

**Collection and reconditioning**
- Collection and environmentally friendly reconditioning, including 100% material recycling of the HDPE in the SCHÜTZ ECOBULK including the IMPELLER
- No longer necessary to stock, clean or repair containers or agitators

**Emptying**
- Easy emptying through the outlet valve

**Stirring**
*With the SCHÜTZ IMPELLER:*
- Clean and efficient stirring processes without needing to open the container
- No danger of contamination due to product residue on multiple-use stirrers
Purchasing Containers & Stirrers

- Much lower acquisition and capital commitment costs

Administration

- No tracking or management required for the container pool

Delivery of empty packaging

- More efficient transport thanks to low tare weight and less space requirement

Filling

- ECOBULK MX are always “ready to fill” with a new inner bottle fresh from the factory
- Compared with washed containers there is no risk of contamination caused by product remains or poorly cleaned packaging
- Suitable for fully automatic or manual filling

With the SCHÜTZ IMPELLER:

- Filling through the optional S56 x 4 filling opening

Preparing the agitator

With the SCHÜTZ IMPELLER:

- No need for labour-intensive, time-consuming cleaning and inspection of external steel agitators
- Simple adaption of existing agitator drives

Transport and storage

- Excellent characteristics for handling, stackability and efficient use of space (e.g., a stack of three is only 4.60 m high)
Do you have further questions about the SCHÜTZ ECOBULK with IMPELLER?

We will be happy to help: +49 (0) 26 26/77-0