

**SPRAY BOOTH RECOVERY SYSTEMS**

A unique application which involves the installation of a Minisifter in-line just prior to the powder paint storage vessel. This allows sieving/cleaning of the recycled powder paint prior to returning it to the vessel for re-use along with virgin powder.

**PROBLEM**

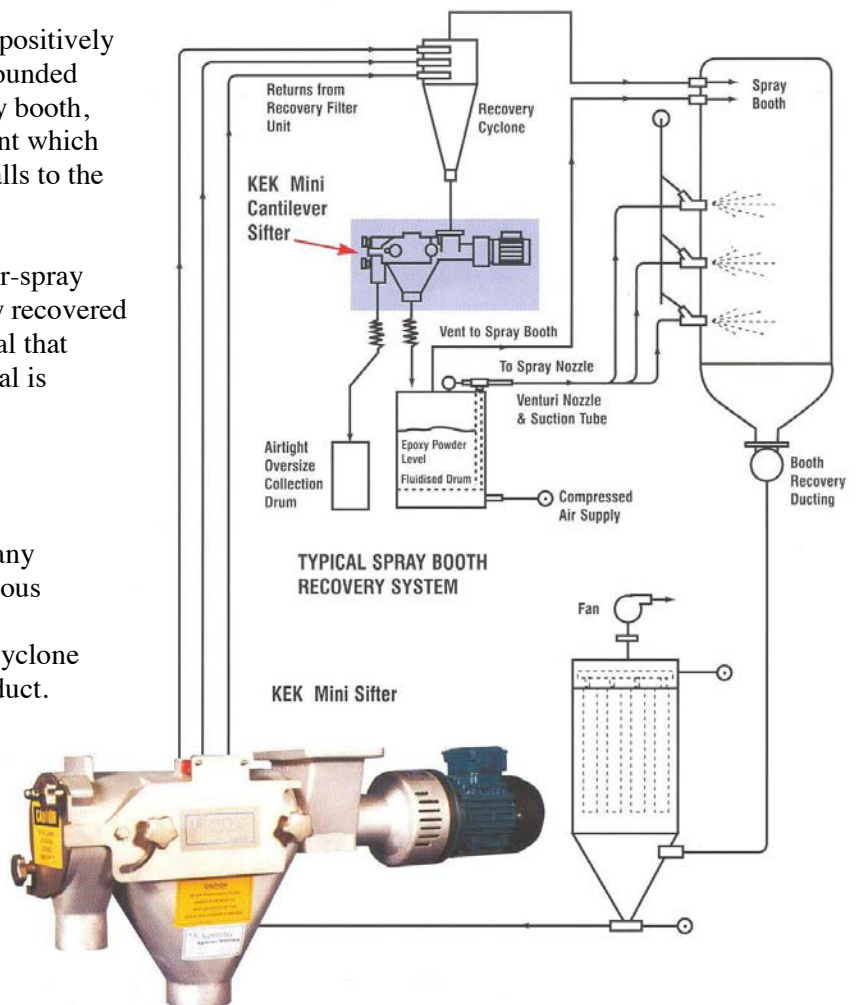
- Although the epoxy powder is positively charged as it is sprayed onto grounded items passing through the spray booth, there is still a significant amount which does not hold fast and which falls to the bottom of the booth.
- Most spray booths have an over-spray recovery system but before any recovered powder is recycled it is essential that agglomerates or foreign material is removed first.

**REQUIREMENTS**

- An efficient means to remove any agglomerated lumps or extraneous material as recycled material is transferred from the recovery cyclone to be re-mixed with virgin product.
- Continuous operation with no requirement to stop the process in order to remove rejected material.
- A means to prevent the static charge within the product causing any blockages.
- Easy clean design.

**SOLUTION**

A KEK Centrifugal Sifter with its positive sifting action which mechanically propels good product through the sifting screen and rapidly discards reject material. Anti-static nylon mesh sifting screens dissipate any residual charging quickly and safely to prevent screen blinding.



**BENEFITS**

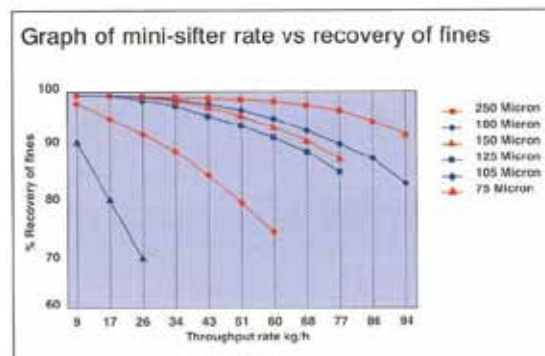
- Continuous recovery of product, no downtime to remove rejects.
- Positive sifting will break down most agglomerates which would otherwise be lost as oversize on traditional sifters thus increasing the recovery rate.
- Reliability- KEK have a proven range of sifters for a whole host of industrial applications and developed specialist powder paint recovery sifters some 20 years ago.
- Besides our standard models, we also offer bespoke designs tailored to suit your proprietary systems.
- Option of screen sizes which are readily changed when required.
- Minimum downtime for cleaning and sieve mesh inspection.

**REFERENCES**

- ITW Gema
- Ercon UK
- Nordson
- Paint & Powder Systems

**TEST REPORTS**

See test report numbers:  
0013034  
0012760  
0012348



Mini-sifters have capacities up to 90 Kg/hr.  
Other larger models are available as follows:-  
K300 (200 Kg/hr)  
K400 (500 Kg/hr)  
K650 (850 Kg/hr)

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