

## Case study:

## Mixing of cosmetic powders

### Application:

Intensive mixing of pigments and talcum and addition of oil for the production of facial powders.

### Requirements:

- Homogeneous pigment dispersion without streaking
- Incorporation up to 25% of oil without lumps
- Post blending of brittle and thermo-sensitive material without damaging the product

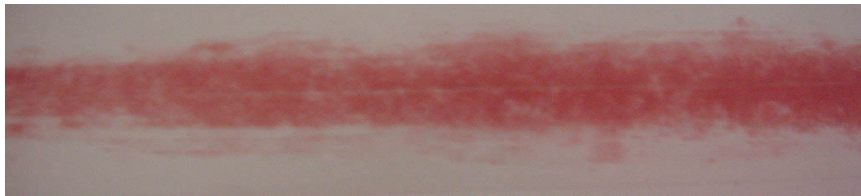


### Solution:

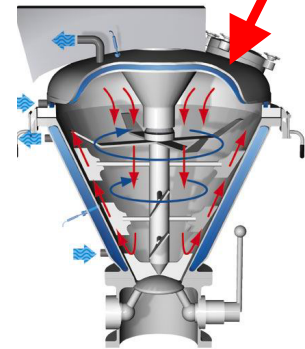
The Cyclomix is able to disperse the pigments completely.

During addition of the oil at the cover of the mixer mixing is taking place. Due to this the material at the spray nozzle is being constantly refreshed, this results in a homogeneous batch without creating any lumps since no parts are over-wetted.

Due to the ability in changing the rotor speed from 3 – 30 m/s it is possible to introduce fragile materials at the end of the batch and mix them gently without destroying the product structure.



*Pigment dispersion without streaking*



### Conclusion:

The Cyclomix can produce facial powders, creating a homogeneous batch without needing a mill for the dispersion. Due to the central position of the nozzle, no lumps are formed which have to be milled down. Due to the ability to rotate also at low speeds, an additional gentle mixer is not required to mix in pearls and other fragile components. Due to this unique combination, product losses are minimal and down time for cleaning can be avoided.

