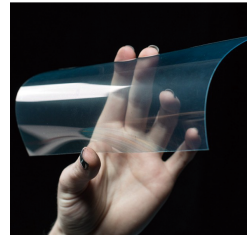


COATING SOLUTION, FILM MANUFACTURING

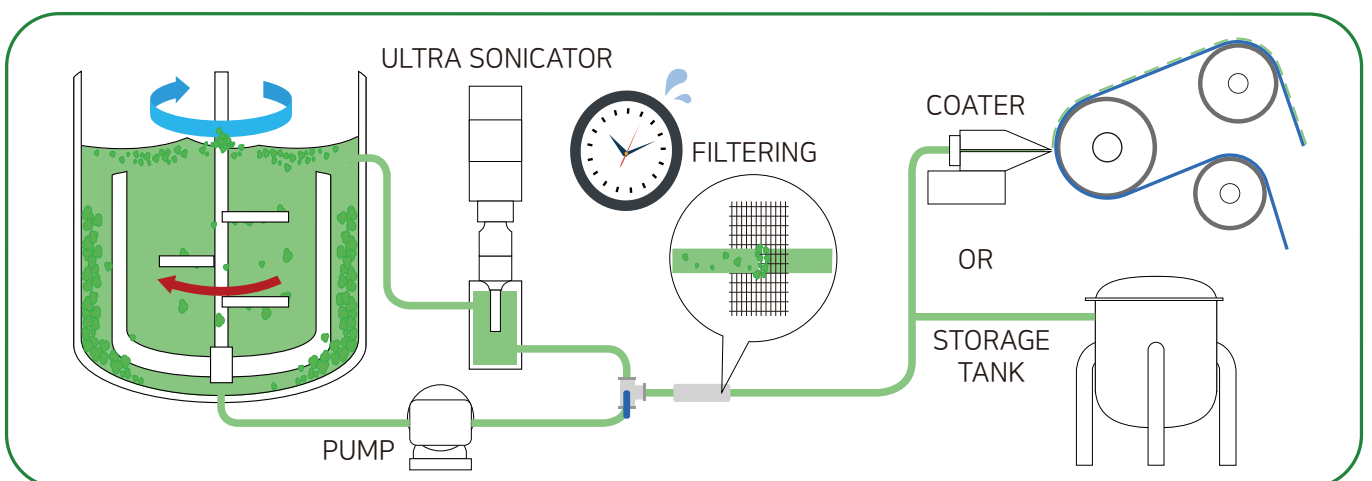


01 ▶ Functional Coating solution, Film Production

- 1) Coating originally refers to work that increases durability, functionality, and protection against moisture or heat by applying a functional film or film treatment to the surface of the underlying material.
- 2) However, as industries and raw materials become innumerable and precise, the fields of 'functional coating' and functional film manufacturing are emerging as important processes.
- 3) In particular, the demand for functional coatings related to displays and secondary batteries, such as optical and semiconductor substrate coatings, conductive coating films, ultra-hard coatings or films, and ceramic coatings, is increasing.
- 4) However, if the material is not completely dispersed during the production of such a coating solution or film, quality problems may occur in the final product due to unstable strength, poor color or streaks, and uneven surface of the product.

02 Problems with existing processes

- 1) Most of the coating or film processes are based on binders and solvents, and functional materials are added and dispersed therein.
- 2) However, with low-speed mixers such as ANCHOR MIXER or PADDLE MIXER that are commonly used, it takes a long time and it is difficult to obtain perfect dispersion results, so filtering is often done. Ultrasonic dispersers with relatively good dispersing power also take a lot of time to mass-produce due to the limitation of small-volume processing.
- 3) In some cases, coating is carried out by transferring it directly to the next process, COATER, after the dispersion process. Even in this case, it must be transferred by a separate pump or manually.



Even such a difficult process can be innovatively improved with MIXENMILL.
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