



PAINT & COATINGS INDUSTRY

Process:

Dispersion of solids in liquid and creation of a stable, homogeneous product

Type of product:

Paints - lacquers - coatings - additives - inks

Application:

Premix for base paint - lacquers - coatings

Dilution of the base product by adding liquid solvents or water

We offer **maximum reliability**,
high durability and **stirring efficiency**

Process description

In general paints and related products such as lacquers and coatings are thixotropic and in static stage often highly viscous. Therefore high shear forces are needed to create the desired products. They mainly consist of these raw materials:

- thickening agents such as resins or oils which ensure proper adherence of the end product to the treated surface
- pigments to add color to the product
- solvents or diluents such as turpentine or water to create a thinner, more liquid product



References

Major players in the industry such as Akzo Nobel, Sigma Coatings, Sicpa Inks, Van Wijhe Verf, Veluvine, Dupont, Flint Ink, International Paint, PPG to name a few, use JONGIA equipment in their production facilities. Installations are up and running world-wide from as far back as the early nineties.



Product information

To create a lump-free, homogeneous and stable product in the premix phase JONGIA offers its dual mixing system consisting of an anchor type mixer combined with a fast running dissolver for mixing in additives. The anchor mixer keeps the mixture homogeneous and is fed by the fast running mixer. JONGIA's anchor mixer can be fitted with wall-contoured scrapers to ensure the best possible axial pumping action for products with a high solids content such as mural paints. When a more gentle product treatment is required, we recommend a parabolic anchor. A single or double 4-bladed axial-flow/multi counter-flow element of our own special design creates the necessary shear forces to mix liquids with low viscosities into high-viscosity products of up to 20.000 cP. The combi-system ensures perfect homogeneity.

For the production of solvent-based products JONGIA is certified to supply mixers suitable for ATEX Zone 1 and 0. We offer a so-called counter-rotating mixer suitable for ATEX zone 1.

When your product is highly viscous our counter-rotating mixing system is the perfect substitute for the dual mixing system described above, because its working area is larger. An added advantage is that the system can be used when there is limited space on the tank top.

After the premix phase the product still requires various additives such as drying and anti-filming agents and pigments. JONGIA'S sawblade element aids in the efficient use of raw materials. It minimizes particles of such additives as pigments, thereby enlarging the specific surface and coloring force. In this case less pigment will be required to reach the desired product quality. Whether your requirements prescribe mixers suitable for ATEX zones or not, you can rely on JONGIA for the right choice of robust, durable and reliable mixing systems with the optimal TCO thanks efficient energy use, short batch times and a minimum of maintenance.



Process consultancy & testing

In synergy with you, our client, we envision the most efficient solution for your mixing application. Mixing techniques are put to the test in our in-house laboratory by our processing experts or on site with our rental test units.

Engineering, manufacturing & quality

Our engineering team is dedicated to designing robust and reliable, leading edge mixing equipment. The equipment is manufactured by skilled craftsmen on state of the art machinery. Every step is controlled by international quality standards.

Installation & global service

Installation, supervision and commissioning are performed by experienced field engineers. Rely on Jongia's 24/7 global service to assist you.

Jongia N.V.

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