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Tokuyama Corporation

Development of high-performance Silica for Matting, “FINESIL FM Series”

Tokuyama Corporation has developed the new grade of “FINESIL”, “FM Series”, as a matting agent for paint.

“FM Series” makes it possible to realize both high transparency and an excellent matting effect which have been regarded as the contradictory properties, and excellent dispersion in paint as well.

As a result of those, “FM Series” displays the highest-level performance among existing matting agents for paint.

At present we are getting ready to start full-scale production in Tokuyama Factory (Shunan City, Yamaguchi Prefecture), and are aiming to gain a majority of the share in the market for high grade matting agents for paint in Japan and Asia in the future.

Generally, matting paint is used for automobiles, household appliances, building materials, etc. for the purpose of delustering(, or reducing the luster), bringing out the natural beauty of materials coated, and providing high quality without spoiling texture and appearance of them.

The matting performance for paint can be evaluated by the gloss rate, transparency, the depth of jet-black, and so forth.

The gloss rate is an indicator of the delustering effect.

In “FM Series” the addition of FINESIL is reduced to less than half in order to get the same gloss fulfilling the purposes, compared with our conventional product (FINESIL).

Transparency can be evaluated by absorbance of paint.

When absorbance is measured under the condition that FINESIL is added to Urethan acrylate resin at the rate of “5 parts per hundred of resin”, “FM Series” realizes more than 6 times transparency in Absorbance 460nm (the blue portion of the visible spectrum) and more than 20 times transparency in Absorbance 700nm (the red portion of the visible spectrum), which are difficult to secure transparency.

Furthermore, the depth of jet-black, which is an indicator of matting performance, is improved, and the problem of “blurring of black” is solved remarkably.

This product will be displayed at THE 4th PAINT SHOW 2006 (April 6~8, 2006 @ Tokyo Big Sight).

Note :

Silica(SiO_2) is white-colored, fine powder, and is used as reinforcing filler for synthetic rubber, an agent for anti-sagging & preventing the settling of pigments in ink and paint, a fluidization agent for powders, an antiblocking agent for films, filler for toothpaste, etc.

FINESIL is used as an ink-absorption agent for ink-jet printer paper, a matting agent for paint, and so forth.