



ELEMENTIS

A global specialty chemicals company

PIGMENT SOLUTION

Custom designed technology

Pigment solution GmbH, Germany

EVALUATION OF FUNCTIONAL
ADDITIVES TO FORMULATE HIGHER
CONCENTRATED MATTING PASTES

Pigment solution GmbH, Germany

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OBJECTIVE



Objective of this study is to find a dispersing agent for :

- PS Matt 112 (waterbased)
- PS Matt 601 (solventbased)

to produce a matting paste with a minimum concentration of 20% for solution GmbH, Germany

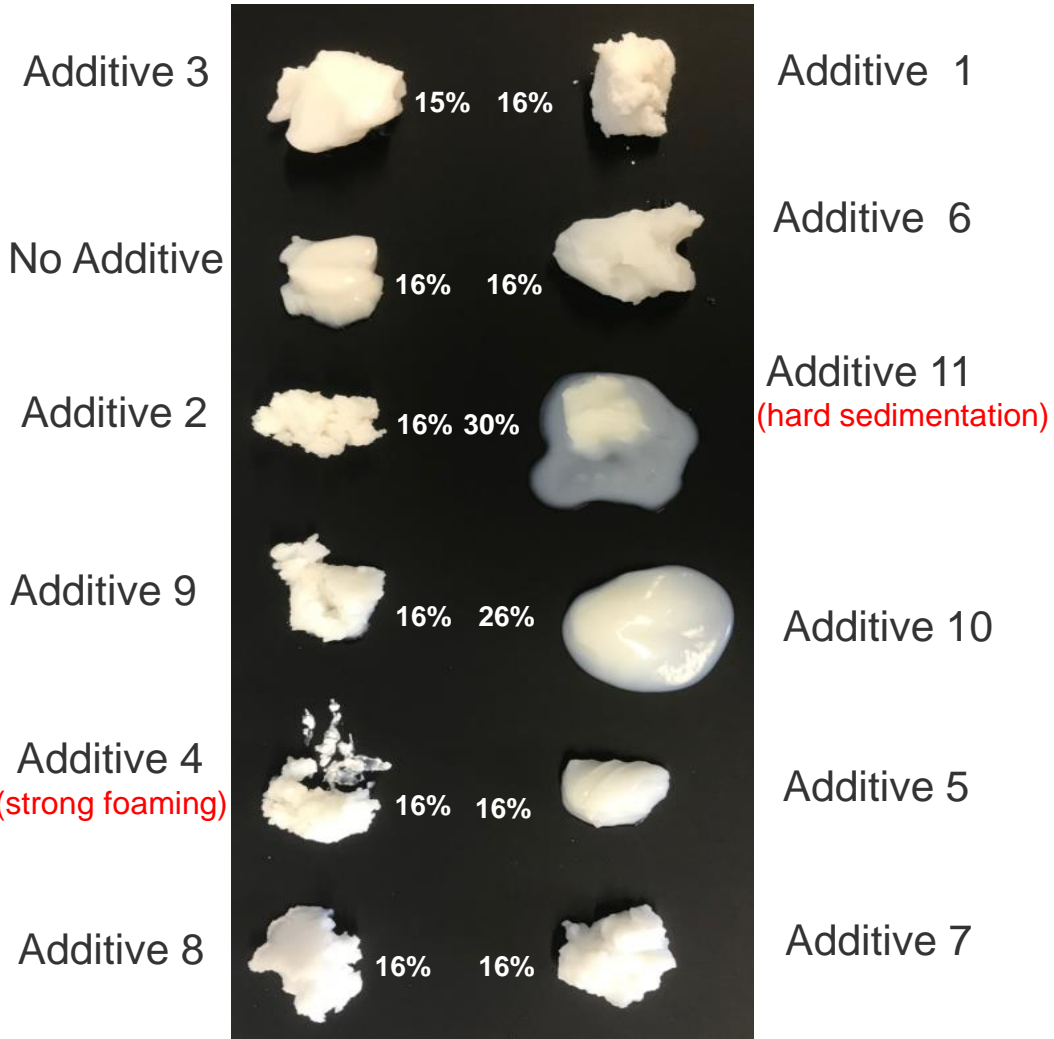


**PS Matt 112
(waterbased)**

Pigment solution GmbH, Germany

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RESULTS % = concentration PS Matt 112

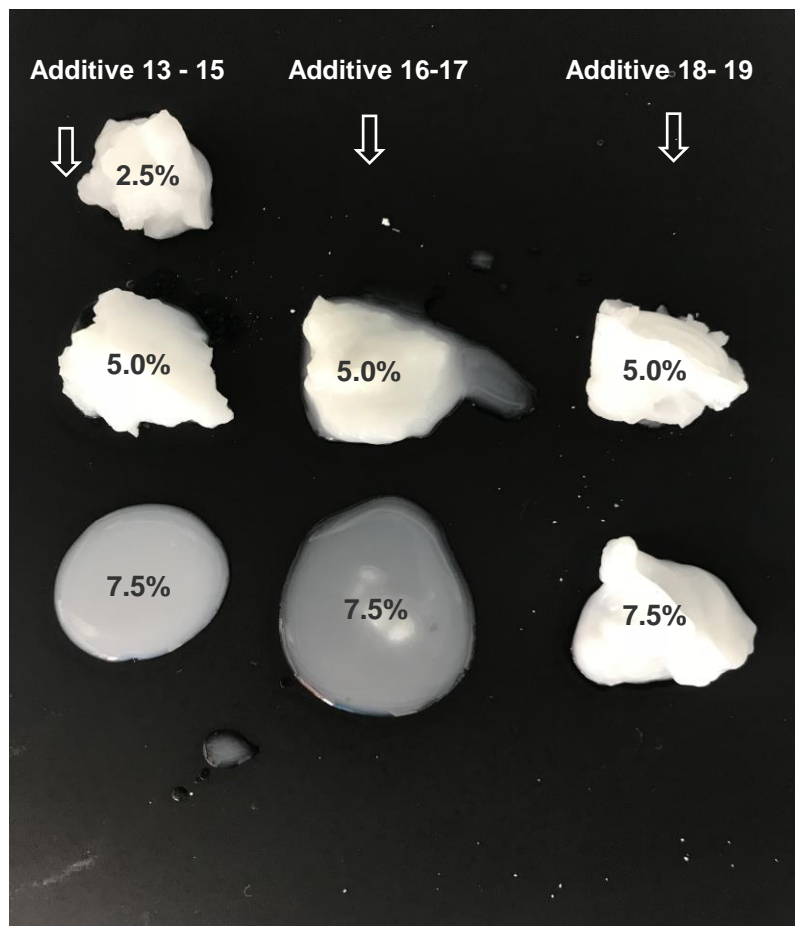


Sample	Additive Loading	PS Matt 112 maximum usage	Others
No additive	--	16%	--
Additive 1	3.0%	16%	--
Additive 2	3.0%	16%	--
Additive 3	3.0%	15%	--
Additive 4	3.0%	16%	strong foaming
Additive 5	3.0%	16%	--
Additive 6	3.0%	16%	--
Additive 7	3.0%	16%	--
Additive 8	3.0%	16%	--
Additive 9	1.5% 1.5%	16%	--
Additive 10	1.5%	26%	--
Additive 11	1.5%	30%	hard sedimentation

PS Matt 601
(Solventbased butyl acetate)

RESULTS

% = concentration PS Matt 601



Sample	Additive Loading	PS Matt 601 maximum usage
No additive	--	14%
Additive 13	2.5%	16%
Additive 14	5.0%	28%
Additive 15	7.5%	34%
Additive 16	5.0%	18%
Additive 17	7.5%	22%
Additive 18	5.0%	18%
Additive 19	7.5%	18%