

# ACEMATT® 3400

## Characteristic physico-chemical data\*)

Properties and test methods	Unit	Value
Specific surface area (N <sub>2</sub> ) Multipoint following ISO 9277	m <sup>2</sup> /g	195
Particle size, d <sub>50</sub> Laser diffraction following ISO 13320-1	μm	7.5
pH value 5 % in water / methanol = 1:1 following ISO 787-9	-	7.3
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 4
Loss on ignition <sup>1)</sup> 2 h at 1000°C following ISO 3262-1	%	≤ 6
Tamped density not sieved following ISO 787-11	g/l	50
Carbon content elemental analyser LECO following ISO 3262-19	%	3
SiO <sub>2</sub> content <sup>2)</sup> following ISO 3262-19	%	≥ 99
1) based on dried substance 2) based on ignited substance *) The given data are preliminary typical values.		

## Registrations

### ACEMATT® 3400

CAS-No.	112945-52-5 (ex 7631-86-9)
REACH (Europe)	registered
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
KECI (Korea)	registered
ENCS (Japan)	registered
PICCS (Philippines)	registered
IECS (China)	registered

For many years, Evonik Industries AG has offered a wide range of proven and efficient ACEMATT® matting agents to the coatings industry.

ACEMATT® 3400 is a new development in the ACEMATT® family of matting agents exhibiting a multitude of exciting benefits:

In solvent and waterborne coatings the surface modification leads to an outstanding suspension behavior. In waterborne systems, there is only a minimum adsorption of associative thickeners resulting in improved rheology stability.

Excellent transparency is obtained making it ideal for clear wood coatings, as observed by the depth of color when applied over colored substrates.

ACEMATT® 3400 also has the added benefit of providing an elegant matted finish to soft-feel coatings as well as enhancing the tactile sensation, which is also known as soft touch or haptic.

Compared to untreated pyrogenic silica, coatings matted with ACEMATT® 3400 also show a marked improvement in mar and burnish resistance.

Like all ACEMATT® products, ACEMATT® 3400 can easily be incorporated and has no adverse effect on the application properties of the coating system.

Advantages of ACEMATT® 3400 are:

- high matting efficiency
- outstanding suspension behavior
- high transparency (depth of color)
- outstanding haptic properties
- minimization of thickener adsorption in waterborne coatings
- improved mar and burnish resistance
- low viscosity build-up in solvent borne coatings

## Properties and applications

ACEMATT® 3400 is an advanced polymer-treated thermal silica, characterised by very good matting efficiency combined with high transparency. It has been developed to use in soft-feel coatings with high haptic requirements. Fields of application include water-based coatings, waterborne UV coatings, clear coatings, coatings for leather and films, and all types of top coats. As the absorption of associative thickeners in waterborne formulations is minimal, an excellent rheological stability is achieved. Coating formulations containing ACEMATT® 3400 also show outstanding resistance against household chemicals.

## Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative. Our products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend to store the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

## Safety and handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from: Evonik Resource Efficiency GmbH, Product Safety Department, E-Mail: [sds-hu@evonik.com](mailto:sds-hu@evonik.com). We recommend to read carefully the material safety data sheet prior to the use of our product.

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