

INCORPORATION OF ALUCOIL

We recommend to pre-disperse ALUCOIL before it is incorporated into the paint. You can use non-polar solvents (e.g. aromatics) and polar solvents (e.g. „butyl diglycol acetate“ {BDGA} or „methoxypropyl acetate“ {MPA}) as well to disperse ALUCOIL properly.

The amount of solvent depends on the fineness of the pigment: The finer the pigment the more solvent is needed. At the end a so-called “doughnut-effect” should be observed. The stirring velocity should be 3-5 m/s. We strongly recommend using teeth-less blades (e.g. impellers and discs) to prepare the aluminium slurry. The use of dissolvers can darken the metallic effect and can cause a rough surface.

COLOUR STABILITY

The colour of a metallic paint is influenced by the viscosity of the paint, stirring time, stirring velocity, stoving time and stoving conditions. All parameters have to be constant. To check the colour of an ALUCOIL batch we recommend doing parallel draw downs: standard vs. batch(es) to be checked on one panel.

WETTING AGENTS

Wetting agents do influence dispersibility of ALUCOIL, flop, optical fineness, viscosity of the final paint and the storage stability. So if a wetting agent is used or changed all these parameters have to be checked (by doing an accelerated storage stability test). In PVDF systems wetting agents can lead to a bad MEK double rub test.

WAXES AND THIXOTROPIC ADDITIVES

Waxes and silicates (e.g. “Bentone” and “Aerosil”) create a homogenous and even surface. They improve flop and prevent settling of aluminium pigments.

CAB TYPES

By the use of CAB a better metallic effect and a better flop will be achieved. CAB 551-0.2 (Eastman) for example, increases the effect in polyesters.

Please check compatibility of the CAB type you want to use with the main binder.

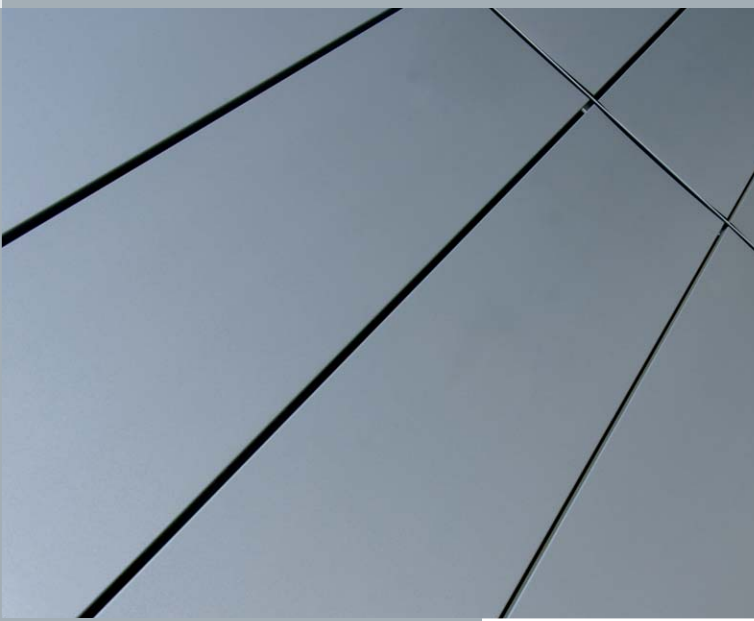
Please check the influence on the chemical resistance as well.

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Basic recipes and technical information on our products are drawn up according to our present state of knowledge and without guarantee and are intended exclusively as advice for our customers. They don't exempt the user from comprehensive tests.

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ALUCOIL
Aluminium Pastes
for Coil- and Can Coating





General Information

The ALUCOIL series was designed especially for can and coil coatings. Besides the very good wetting properties in common binders ALUCOIL offers excellent pigment orientation and brilliance.

Due to the high purity of the aluminium the chemical resistance is excellent.

The product check of ALUCOIL grades is done in typical coil coating systems thus ensuring a high quality level with a superb batch to batch consistency.

Depending on the fineness and pigmentation rate ALUCOIL pigments show very good shielding properties against dangerous UV radiation. Recommended pigmentation rates are between 3 and 10% depending upon the dry film thickness and pigment fineness used.

For tinted systems based on inorganic and organic pigments we recommend 0,5 - 4% aluminium paste.

Polymer Coated ALUCOIL XT – Series

In terms of an improved chemical resistance and excellent weatherability the new polymer-encapsulated ALUCOIL XT – series is the first choice.

Excellent results at intercoat adhesion issues can be obtained with ALUCOIL XT.

ALUCOIL – Series

ALUCOIL Grades	Solid content [%]	Type of solvents*	D50 Value [µm]	Morphology	Encapsulation
Alucoil 2600 CC	65	TB / SA	24	Flake	-
Alucoil 1500 CC	65	TB / SA	22	Flake	-
Alucoil 1700 CC	65	TB / SA	18	Flake	-
Alucoil 1800 CC	65	TB / SA	14	Flake	-
Alucoil 2900 CC	65	TB / SA	11	Flake	-
Alucoil 2950 CC	60	TB / SA	8	Flake	-
Alucoil 3200-01 CC	70	TB / SA	50	Silver Dollar	-
Alucoil 3400 CC	70	TB / SA	34	Silver Dollar	-
Alucoil 6600 CC	70	TB / SA	18	Silver Dollar	-
Alucoil 6900 CC	70	TB / SA	15	Silver Dollar	-
Alucoil 7800 CC	50	TB / SA	8	Silver Dollar	-
Alucoil XT 1700 CC	50	TB / SA	18	Flake	polymer coated
Alucoil XT 2900 CC	50	TB / SA	11	Flake	polymer coated
Alucoil XT 3200 CC	55	TB / SA	56	Silver Dollar	polymer coated
Alucoil XT 3400 CC	55	TB / SA	34	Silver Dollar	polymer coated
Alucoil XT 7200 CC	55	TB / SA	25	Silver Dollar	polymer coated
Alucoil XT 6600 CC	55	TB / SA	18	Silver Dollar	polymer coated
Alucoil XT 6900 CC	55	TB / SA	15	Silver Dollar	polymer coated
Alucoil XT 7600 CC	55	TB / SA	13	Silver Dollar	polymer coated
Alucoil XT 7800 CC	50	TB / SA	8	Silver Dollar	polymer coated
Alucoil XT 8500 CC	50	TB / SA	15	thin Silver Dollar	polymer coated

*TB = White spirit SA = Solventnaphtha