

Technical Data Sheet

Last revised: **01-2019**

DELTA-DC® 4044

DELTA-DC® 4044 is an anionic/cationic wetting and dispersing additive to improve the wetting of pigment surfaces and organically treated Bentonites and to reduce the time required for the grinding process. **DELTA-DC® 4044** is the standard wetting and dispersing additive for industrial and architectural coatings. Not only can it be used as a multi-purpose wetting and dispersing additive, but it can also be utilized to activate the organophilic Bentonites. **DELTA-DC® 4044** is suitable for **coatings** and **composite**.

Specifications:

Composition	: Unsaturated polyamide and acid ester salts
Solvent(s)	: Xylene/n-butanol/monopropylene glycol
Specific gravity @ 20°C	: ca. 0.94 g/cm ³
Flashpoint	: 25 °C
Appearance	: Transparent, yellowish liquid
Amine value	: 14-20 mg KOH/g
Acid value	: 23-31 mg KOH/g
Active ingredients	: 52%

Methods of analysis can be received upon request

Applications and usage:

Coatings

DELTA-DC® 4044 reduces the interfacial tension between pigments or extenders and the vehicle leading to:

- Reduced dispersion/grinding times
- Decreased pigment sedimentation
- Increased gloss
- Improved flow

DELTA-DC® 4044 is a multi-purpose wetting and dispersing additive, which is compatible with all solvent and solvent-free coating systems. It can be used as well to provide excellent activation of organically treated Bentonites.

DELTA-DC® 4044 should be added prior to the dispersion/grinding process.

0.2-2.0% (delivery form) on inorganic pigments

2.0-5.0% (delivery form) on organic pigments

30.0-50.0%(delivery form) on the Bentonites

Composite

DELTA-DC® 4044 improves the dispersing/grinding process of fillers in glass fiber reinforced plastics.

Through a better wetting and a more homogeneous distribution of the fillers, a strong viscosity reduction is obtained. This results in an improvement of the physical properties like the impact resistance, especially in systems filled with Al(OH)₃.

DELTA-DC® 4044 can be used in filled SMC (sheet moulding compounds) and BMC (bulk moulding compounds) and in other filled and reinforced compounds.



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DELTA-DC® 4044 should be added to the resin system prior to the addition of the extenders.

0.5-1.5% (delivery form) on extenders

Safety and Handling:

DELTA-DC® 4044 should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet.

Storage:

DELTA-DC® 4044 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The production date is indicated on the container.

Packaging:

55 kg and 190 kg non-returnable metallic containers.
