

Technical Data Sheet

Last revised: **01-2019**

DELTA-DC® 3047

DELTA-DC® 3047 is a high molecular weight wetting and dispersing additive for solvent-based coatings and solvent-based printing inks. It prevents reflocculation of pigments through steric hindrance and therefore stabilizes the color strength and hue of pigments in paints and pigment concentrates. **DELTA-DC® 3047** is preferably used in automotive coatings and high performance solvent-based coatings. It can be used in all kinds of solvent-based coatings as well as pigment concentrates.

Specifications:

Composition	: Modified polyurethane
Solvent(s)	: Butylacetate/methoxypropylacetate/s-butanol
Specific gravity @ 20°C	: ca. 0.98 g/cm ³
Flashpoint	: 24 °C
Amine value	: 14-20 mg KOH/g
Appearance	: Yellowish liquid
Active ingredients	: 35%

Methods of analysis can be received upon request

Applications and usage:

Coatings

DELTA-DC® 3047 is a high molecular weight wetting and dispersing agent that has been developed for high performance solvent-based coatings. The higher molecular weight of **DELTA-DC® 3047** compared to **DELTA-DC® 3046** exhibits stronger deflocculation with organic pigments and carbon blacks. It also shows better viscosity reduction in the mill-base as compared to **DELTA-DC® 3046**.

DELTA-DC® 3047 enhances processing of pigment bases during grinding and enables higher pigment loads to be achieved.

This results in:

- Improved color strength
- Lower viscosity
- Higher gloss
- Reduce dispersion time

DELTA-DC® 3047 is recommended mainly in transportation coatings (OEM and car refinish) but can be used in all kinds of solvent-based coatings as well as pigment concentrates.

DELTA-DC® 3047 should be incorporated in the mill-base before adding the pigments.

Inorganic pigments	: <u>10% of oil absorption value (solid form)</u>
Organic pigments	: <u>30-50% of BET value (solid form)</u>
Carbon blacks	: <u>15-25% of DBP value (solid form)</u>

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Printing Inks

DELTA-DC® 3047 has been developed for solvent-based formulations. It can be used in solvent-based liquid inks and pigmented bases.

DELTA-DC® 3047 will also be effective in UV-curable formulations.

DELTA-DC® 3047 may be used in screen and gravure printing.

For best results, **DELTA-DC® 3047** should be combined with the pre-blended liquid portion of the mill-base formulation before addition of the pigment.

Organic pigments : 25-50% of BET value (solid form)

Carbon blacks : 20% of DBP value (solid form)

Safety and Handling:

DELTA-DC® 3047 should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet

Storage:

DELTA-DC® 3047 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:

50 kg and 190 kg non-returnable metallic containers.
