



# Product Data Sheet

## ADD-4047

### GENERAL

**ADD-4047** 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 colour strength and hue of pigments in paints and pigment concentrates. **ADD-4047** 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 <sup>3</sup>
Flashpoint	: 24°C
Amine value	: 14-20 mg KOH/g
Appearance	: Yellowish liquid
Active ingredients	: 35%

### APPLICATIONS AND USAGE

#### Coatings:

**ADD-4047** is a high molecular weight wetting and dispersing agent that has been developed for high performance solvent-based coatings. The higher molecular weight of **ADD-4047** compared to **ADD-4046** exhibits stronger deflocculation with organic pigments and carbon blacks. It also shows better viscosity reduction in the mill-base as compared to **ADD-4046**.

**ADD-4047** 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

**ADD-4047** is recommended mainly in transportation coatings (OEM and car refinishing) but can be used in all kinds of solvent-based coatings as well as pigment concentrates.

**ADD-4047** should be incorporated in the mill-base before adding the pigments.

Inorganic pigments: **10% of oil absorption value** (solid form)

Organic pigments: **30-50% of BET value** (solid form)

Carbon blacks: **15-25% of DBP value** (solid form)

#### Printing Inks:

**ADD-4047** has been developed for solvent-based formulations. It can be used in solvent-based liquid inks and pigmented bases.

**ADD-4047** will also be effective in UV-curable formulations.

**ADD-4047** may be used in screen and gravure printing.

For best results, **ADD-4047** should be combined with the pre-blended liquid portion of the mill-base formulation before addition of the pigment.



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Organic pigments: **25-50% of BET value** (solid form)  
Carbon blacks: **20% of DBP value** (solid form)

### STORAGE, SAFETY & HANDLING

**ADD-4047** 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. **ADD-4047** should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet.