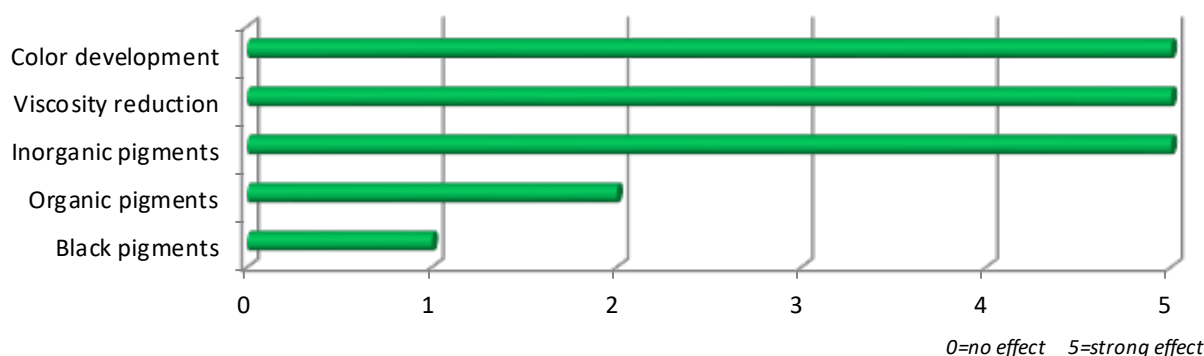


# UNIQ<sup>®</sup> SPERSE P-199

Wetting and dispersing additive for filled unsaturated polyesters



**UNIQ<sup>®</sup> SPERSE P-199** is a wetting and dispersing additive for filled unsaturated polyester eg calcium carbonate and ATH. Strong viscosities reduction so higher pigment and filler loading in the grinding process can be achieved.

In BMC the **UNIQ<sup>®</sup> SPERSE P-199** is used as viscosity stabilizer.

**UNIQ<sup>®</sup> SPERSE P-199** is the cost-effective alternative to **UNIQ<sup>®</sup> SPERSE P-191**.

## Special Features

- Wetting and dispersing agent for TiO<sub>2</sub>, inorganic pigments and fillers
- Reduce the viscosity
- increase the pigment and filler loading

## Application

Low emission SMC/BMC	■
LP and Class A formulations	■
LS formulations	■
Pultrusion	■
Epoxy systems	□

highly recommended ■  
recommended □

## Product Specification

Active ingredients	100 %
Density 20°C	0.985 g/cm <sup>3</sup>
Acid value	84 mg KOH/g
Appearance	Slight yellowish clear liquid

## Addition levels

Amount of solid additive based on pigment (SOP):

- Fillers/pigments: 0.5 - 1%
- BMC: 0.25 - 1%

The above recommended levels can be used for orientation and needs to be optimized by testing.

## Packaging

- 25 kg
- 190 kg

## Shelf life

**UNIQ<sup>®</sup> SPERSE P-199** 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.

Separation and turbidity may be found during storage and transportation. When warm up to > 35°C and mix thoroughly, it doesn't affect the performance.