



# Product Information

## COL.9® 9099

### Nano-composite polymer dispersion as a premium low dirt pickup surface modifier for exterior coatings

COL.9 9099 is a highly innovative nano-composite binder that combines the hardness of inorganic binders with the elasticity of organic binders – keeping surfaces fresher for a longer time. COL.9 9099 leads to coatings with harder surfaces and stronger adhesion to mineral surfaces.

**Chemical Nature:**

Nano-composite acrylic hybrid

**Benefits**

- Excellent dirt-pick-up resistance
- Excellent Gloss Retention
- Excellent Water Whitening resistance

**Features**

- Excellent weatherability
- APEO free
- Non Yellowing

Properties			
Product specification*	Solids content	%	45 ± 1
	pH value	pH	9.2 – 9.8
	Viscosity at 23 °C	mPa s	10 – 60
Other properties of dispersions	Minimum film-forming temperature (ISO 2115)	°C	approx. 34
	Density (ISO 2811-1)	g/cm <sup>3</sup>	approx. 1.14
	Resistance to frost	°C	≤ 0
	Type of dispersion		anionic

\*The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

**Note**  
The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

## Applications

### Areas of application

COL.9 9099 is used for surface modification of exterior coatings for enhanced dirt pick up resistance.

### Processing

Solvents need to be added in order to enable the polymer to form a uniform film at temperatures below ambient temperature. It is usually sufficient to add these solvents at a level of 5 - 10%, expressed as a proportion of the total dispersion. Short-chain alcohol and glycols improve the freeze-thaw resistance of paints, but they can not be used to lower the film-forming temperature.

COL.9 9099, like all fine dispersions, has a tendency to foam. It is therefore necessary to add a commercial defoamer at the level of 0.3 – 0.6%. Trials should be carried out to test the effectiveness of the defoamer.

COL.9 9099 is protected against attack by microorganisms, preservatives must still be added to the formulated products so as to ensure uniform quality even with prolonged storage. Compatibility and effectiveness must be determined by preliminary trials.

Customers have to carry out their own trials when developing and processing products based on COL.9 9099. The compatibility of COL.9 9099 with other ingredients of formulations, its effect on mixing process and its adhesion on different substrates etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials. This includes testing its stability by storing it at ca.50°C to confirm that its viscosity remains stable.

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## Safety

### General

The usual precautions for handling chemicals must be observed. These include the measures set out in the guidelines of the organizations responsible for safety at work, in particular, good ventilation and fume extraction at the workplace, care of the skin and the wearing of eye protection.

### Safety Data Sheet

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

### Labeling

According to all the data at our disposal, COL.9 9099 does not need to be labeled as a dangerous substance or preparation as defined in the relevant local directives according to their current status.

## Storage

COL.9 9099 must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. During storage it is particularly important to ensure that containers are closed tightly; in storage tanks the air must always be saturated with water vapor. Undue heating must be avoided, as much exposure to frost.

Given adequate tank and storage hygiene COL.9 9099 can be kept for about 12 months at 10-30°C.

To prevent problems with microorganisms we recommend post-stabilizing the product with biocides for storage.

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