



Caflon Floc™

Water-based
dispersion polymers

 **Univar**Solutions

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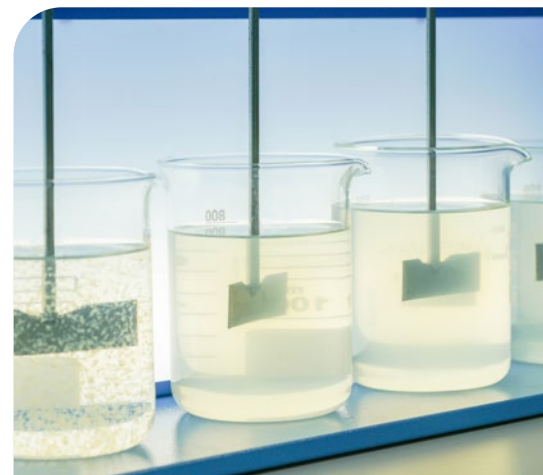
Water-based dispersion polymers

One of the innovations that Univar Solutions is proud to bring to the water treatment industry are water-based dispersion polymers. These flocculants enjoy a wide range of benefits when compared with emulsion and powder flocculants. Our products are without a doubt the most sustainable and safe option to tackle sludge dewatering and physico-chemical treatment of wastewater at the same time they bring efficiency and reduce the need for CAPEX Investment.

Comparison against other Technologies

Today the market is still predominantly using Powder & Emulsion flocculants. However, these products suffer from certain disadvantages that can only be solved by moving towards water-based flocculants. These products barely need any dissolution time and can even be added directly when necessary. This means they need limited to no equipment to be dosed. Combine this with the fact you also need less water to dilute the product and you quickly save on water and energy costs. The fact they can be blended with other polymers makes them very efficient and often improves the flocculation by having a larger scope to tackle any challenge.

	WATER BASED DISPERSIONS	EMULSION PRODUCTS	POWDER PRODUCTS
Application	Very cheap equipment	Expensive equipment	Very expensive equipment
Before Use	No stirring needed	Stirring recommended	Hygroscopic products provoke aggregates
Solubility	Complete between 0.1%-5%	Minimum concentration is needed	Loss of performance because of uncompleted dissolution
Dissolution time	< 45 sec (90% dissolved)	> 30 min	> 60 min
Water quality affects in dissolution	✗	✓	✓
VOC's Increase	✗	✓	✗
Direct application	✓	✗	✗
COD & BOD Increase	✗	✓	✗
Freezing Temperature	Very low	Low	N/A
Shelf life	9 months	6 months	12 months



Key Benefits & Properties

SUSTAINABLE

- Free of Solvents, oils and Surfactants
- Lower carbon footprint
- No emission of VOC's

EASY TO USE

- Direct dosing possibility
- Only static mixer required
- Allows blends with other polymers

EFFICIENT

- Most effective active polymer exploitation
- Low-cost dosing equipment
- No BOD added to the system

Product Portfolio

Just like powder and emulsions our products are based on acryl amide with varieties in ionic charge and molecular weight. Our technology also allows crosslinked polymers which are known to offer great performance in sludge dewatering when using centrifuges. Below is our core product portfolio, but we also have the ability to blend or create specialized flocculants adapted to your needs.

PRODUCT	TYPE	CHARGE	MOLECULAR WEIGHT	CROSSLINKING
0052 RD	Cationic	Very Low	High	-
0003 RD	Cationic	Low	Medium	-
325 RD	Cationic	Low	Medium	-
525 RD	Cationic	Very Low	High	-
03 GT	Cationic	Low	High	-
328 GT	Cationic	Low	High	-
599 GT	Cationic	Medium	Very high	-
899 GT	Cationic	High	Very High	-
059 XT	Cationic	Medium	-	Very high
0559 XT	Cationic	Medium	-	Medium
089 XT	Cationic	High	-	High
0637 XT	Cationic	High	-	Medium
0889 XT	Cationic	High	-	Medium
223 WZ	Amphoteric	Low	Medium	-
111 WZ	Amphoteric	Medium	Medium	-
0317 OG	Anionic	Low	Extremely High	-
0302 OG	Anionic	Low	Very High	-
7705 OG	Anionic	Medium	Very High	-
3178 AG	Anionic	Low	High	-



Typical Characteristics

Appearance: Opaque white liquid

Density: 1,2 kg/m³

Suggested Dilution: 10 kg per m³ (1%)

Shelf life: We recommend a maximum storage time of 9 months





Contact:

For more information on this range of Products please contact your local Univar Solutions representative.

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