

CRILAT 4821

CRILAT 4821 is an acrylic dispersion characterized by high water resistance studied to formulate paints and coatings for exterior where high weathering resistance and durability of the color are required. **CRILAT 4821** is free from alkylphenol-ethoxylates (APEO-free), formaldehyde, coalescing agents and plasticizers.

APPLICATIONS

The dispersion of **CRILAT 4821** is particularly suitable for the preparation of paints and textured coatings for exterior application, where high resistance to water and alkali is required.

Thanks to the high hydrophobicity, the film of **CRILAT 4821** does not become white in contact with water.

CRILAT 4821 requires a coalescing agent for the correct film formation at low temperatures.

High water resistance

High resistance to the water
whitening effect

High binding power
at high PVC paints

Excellent alkali resistance

Good color retention

High weathering resistance

Low dirty pick-up

	UNIT	VALUE	METHOD
SUPPLY SPECIFICATIONS			
Solid content	%	48±1	MV PF 01
Brookfield viscosity (1)	mPa·s	<500	UNI EN ISO 2555
pH		8.0±0.5	ISO 976

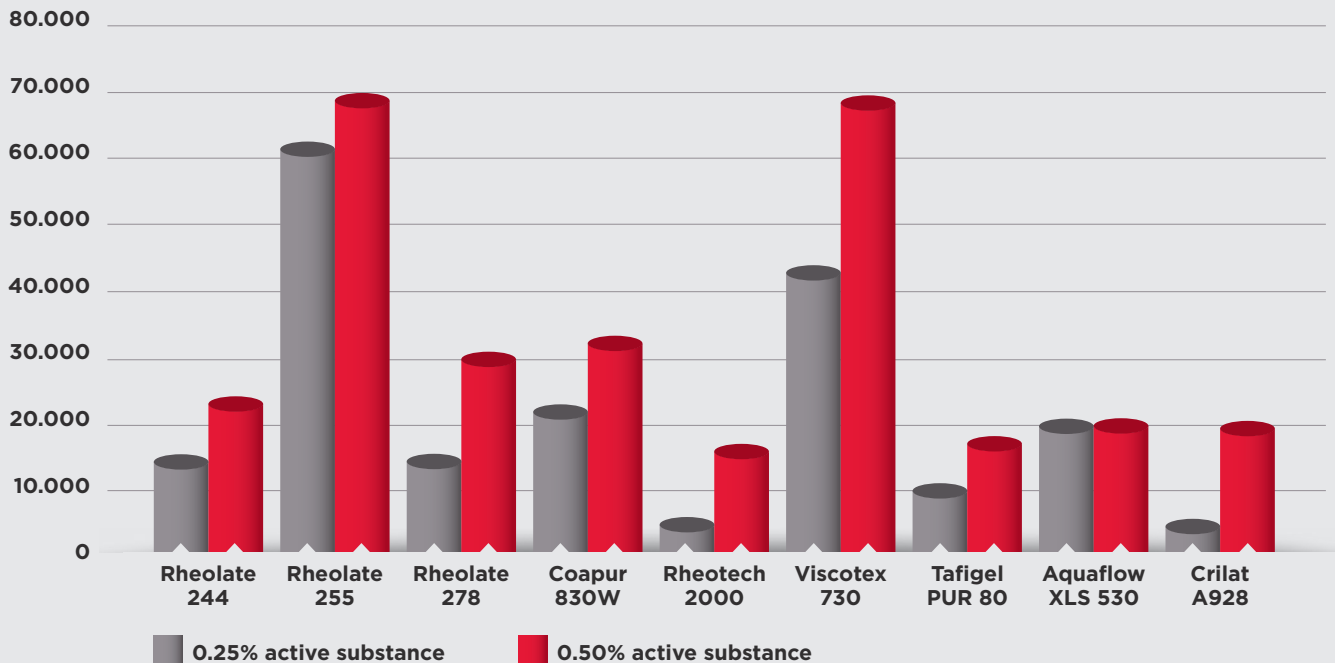
TYPICAL VALUES			
Minimum film formation temperature	°C	+12	UNI 8490-14
Particle size distribution	µm	0.1÷0.2	MVANS 20
Density at 23°C	Kg/dm ³	1.06	MV PF 18
Glass transition temperature	°C	+21	MV ANS 01

(1) RVT 20 rpm, spindle 1,23°C

CRILAT 4821 has good compatibility with different types of thickeners commonly used in the formulations of wall paints and textured coatings.

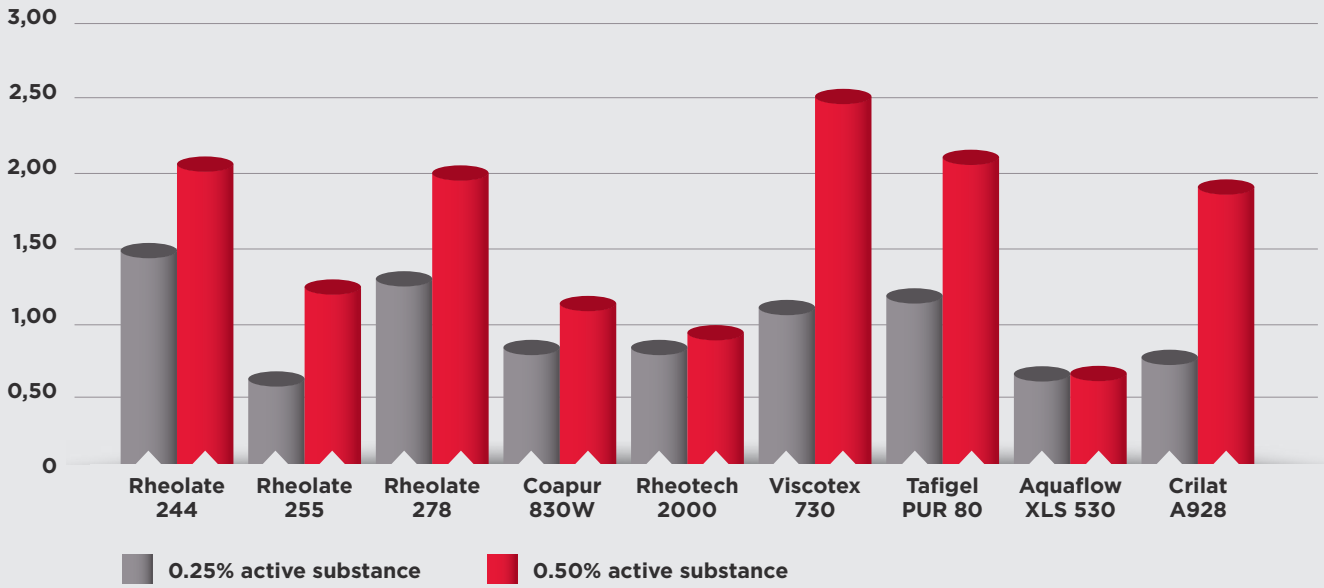
BROOKFIELD VISCOSITY - 20 RPM - mPa*s

CRILAT 4821 INTERACTION WITH ASSOCIATIVE THICKENERS: BROOKFIELD VISCOSITY



ICI VISCOSITY - P

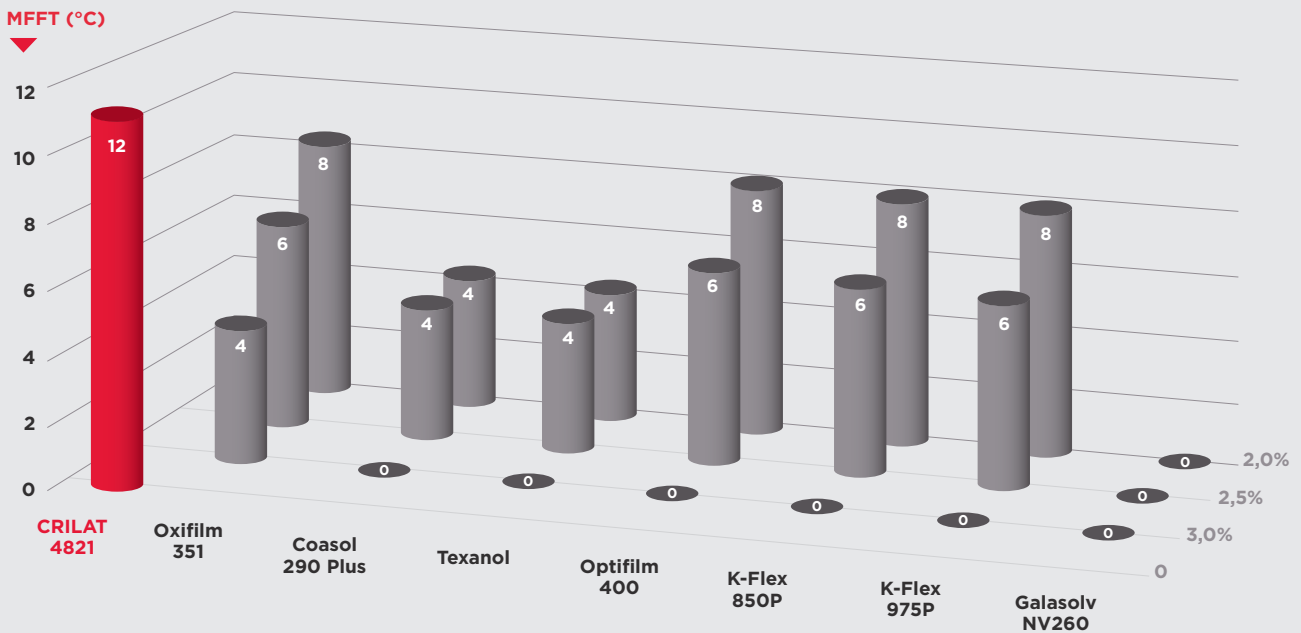
CRILAT 4821 INTERACTION WITH ASSOCIATIVE THICKENERS: ICI VISCOSITY



The test was made adding 0.25% / 0.50% of the active substance of the thickener on the dispersion.

CRILAT 4821 requires a coalescing agent for the correct film formation. In the graph non-VOC coalescing agents.

COMPATIBILITY WITH COALESCING AGENTS





Surface tension measurement

		CRILAT 4821	CRILAT 4818	Competitor A	Competitor B
Surface tension	mN/m	55,61	49,29	46,19	51,16
Polar component	%	59	3	55	8
Dispersed component	%	41	97	45	92

CRILAT 4821 has been specifically designed to achieve high surface tension giving to the polymer film an excellent water resistance.

CRILAT 4821

PACKAGING

CRILAT 4821 is available in bulk, 1000 l IBC and 125 Kg nett PE drums.



STORAGE

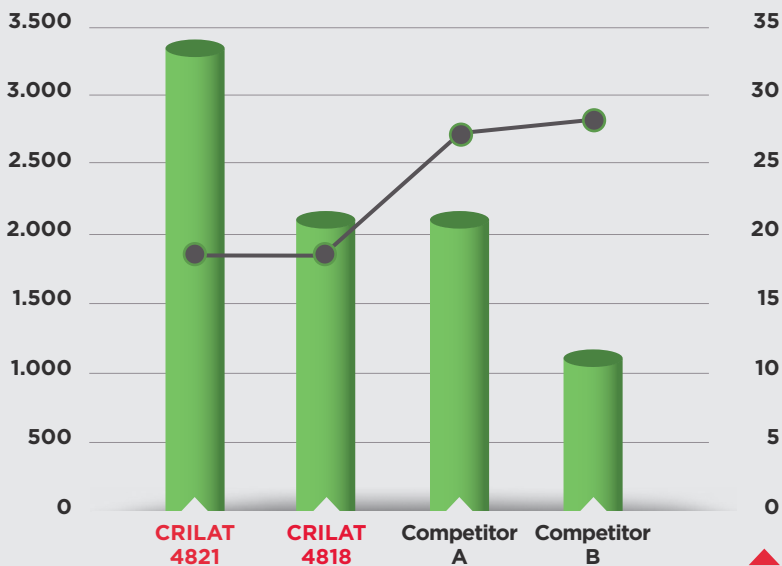
CRILAT 4821 remains stable at least 6 months if stored at temperatures between +5°C and +40°C.



CRILAT 4821 formulated at high PVC paints has an excellent binding power.

DIN 53778
N° CYCLES

WET SCRUB RESISTANCE ISO 11998 AND DIN 53778
75% PVC PAINT



Wet scrub resistance DIN 53778

Wet scrub resistance ISO 11998

HEADQUARTERS:

VINAVIL S.p.A.
Via Valtellina, 63 | 20159 Milano
ITALY
Tel. +39 02695541
Fax +39 0269554890

HEAD OFFICES:

VINAVIL AMERICAS
Deerfield Beach (Miami) FL | U.S.A.
Laval (Montreal) Qc | CANADA

VINAVIL EGYPT
Cairo | EGYPT

www.vinavil.com

