



ESACOTE AC 509

Chemical description

ESACOTE AC 509 is an anionic APEO free acrylic multi phase emulsion.

Main use

ESACOTE AC 509 can be used as binder for clear and pigmented coatings providing:

- Good corrosion protection;
- Superior water resistance;
- Good adhesion on CRS and metal substrates.
- Good adhesion on various materials.

Product properties

Appearance at 25 °C:	milky liquid
pH:	7,5-8,5
(at 25°C on supplied product, ASTM E 70):	
Viscosity (mPa.s): (Brookfield RVT @ 25 °C, 50 rpm spindle 2)	< 1000
Solid content, %:	42.0-44.0

Typical values*

Solvent content, %:	0%
Minimal film forming temperature, °C:	~25
Koenig hardness (sec):	~65
Film aspect:	transparent and glossy

**These values provide general information and are not part of the product specification*

Applications

ESACOTE AC 509 is a binder specifically designed to be used on formulations for metal substrates protection. Adhesion on CRS and, generally on metal substrates, is very good as primer, top coat and DTM formulations.

It is a very hydrophobic product, with good performances.

Starting point formulations are available through our sales representatives.

ESACOTE AC 509 can be used as a sole binder or in combination with other water based resins. A preliminary check of compatibility is recommended.

We generally suggest small percentage of glycols for good film formation.

Storage and handling

Suggested storage conditions for ESACOTE AC 509 is between +5°C and +40°C. Keep the product away from frost and direct light. If stored under these conditions, ESACOTE AC 509 is stable for 12 months after production date.

Packaging

ESACOTE AC 509 is available in 120 kg drums or 1,000 kg intermediate bulk containers.

Material safety

Please consult the safety data sheet of ESACOTE AC 509 before its use.

Regulatory information

In case compliance with specific regulations is required please contact our sales representatives.

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This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g., regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.

ESACOTE® AC 509

FORMULA ORIENTATIVA PARA METAL

Introduction order	Raw material	Quantity %	Function & Supplier
1	AGUA	10.2	
2	VERAPON R-405	1.5	Wetting Agent (Lamberti)
3	DEFOMEX 870	0.4	Defoamer(Lamberti)
4	AMP 95	0.2	Leveler agent(Byk)
5	TITANIO R-902	14	Wetting agent(Byk)
6	FOSFATO DE ZINC	4	Anticorrosive(Halox)
	WOLLASTONITA NYAD M-325	5	Charge
	POSSALC 6	3	Charge
	MINUSIL 40	2	Charge
7	DIETILENGLICOL	2	Antifreeze(Alveg)
	ESACOTE® AC 509	55	Binder (Lamberti)
8	COATOSIL MP 200	0.3	Adhesion Promoter(Momentive)
9	BYK 024	0.2	Defoamer(BYK)
10	BYK 333	0.5	Leveler agent(BYK)
	COATOSIL MP 200	0.3	Adhesion Promoter(Momentive)
11	VISCOLAM® PS 170 AIR	0.4	Rheology modifier(Lamberti)
	HALLOX FLASH 150	0.3	Anticorrosive(Halox)
12	LIMOCID 135 TR	0.2	Bactericide(Lamberti)
	PRETO NEOPRINT DBK	0.5	Pigment (Lamberti)
	Total	100	
12	CROSSLINKER 08	10	Polyisocyanate Crosslinker (Lamberti)
	Total	110	