



PRIMAL™ LE-518V Emulsion

For Low Emission, Stain Resistant, Premium Interior Paints

Regional Product Availability

- Asia-Pacific

Description

PRIMAL™ LE-518V Emulsion facilitates the formulation of low odor, low VOC, low emission premium interiors paints with excellent stain resistance.

PRIMAL LE-518V Emulsion utilizes proprietary technology to offer excellent wash-ability, good early chalking resistance and excellent freeze-thaw resistance. PRIMAL LE-518V Emulsion offers excellent formulation stability and paint storage stability.

Key Features

- Low Emission.
- Excellent stain removal.
- Excellent freeze / thaw stability.
- Low Odor, low VOC.
- APEO-free ⁽¹⁾ and no added formaldehyde or formaldehyde generators ⁽²⁾.

Benefits

- Facilitates the formulation of low emission paints with VOC in can lower than detection limit of 2g/lit (GB 18582-2008).
- Facilitates the formulation of paints with TVOC emission with A+ grade certification (JG/T 481-2015).
- Facilitates the formulation of paints with I grade stain removal (HG/T 4756-2014).
- Facilitates the formulation of paints for Green Guard Gold label

Typical Properties

(These properties are typical but do not constitute specifications).

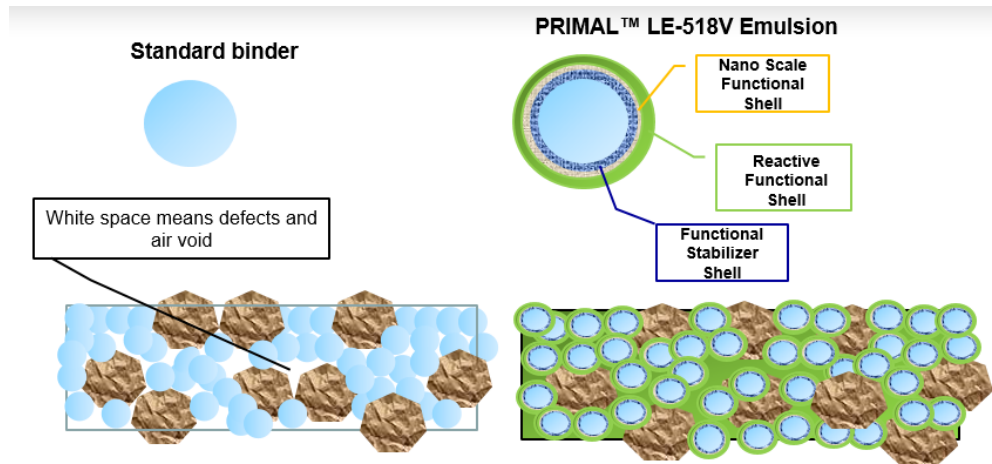
Property	Typical Values
Appearance	Opaque, white to off-white liquid
Solids, by weight, %	51.5
Density (g/ml), wet	1.05
pH	7.7
Minimum Film Formation Temperature, (±2°C)	8
Viscosity (Brookfield LV #3, 60 rpm, 25°C), cps	< 2000

(1) Manufactured without the use of Alkyl Phenyl Ethoxylate surfactants.

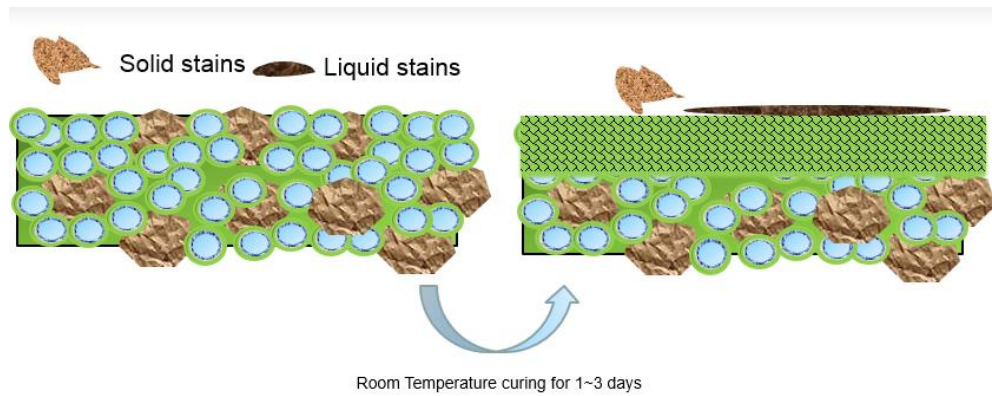
(2) Formaldehyde is a ubiquitous material in our environment. Currently there is no accepted regulatory or industry definition of "Formaldehyde-Free." Therefore, we purposely refrain from using the term "Formaldehyde-Free." However, for PRIMAL™ LE-518V Emulsion, we do not intentionally add Formaldehyde or Formaldehyde generators.



Mechanism of PRIMAL™ LE-518V Emulsion

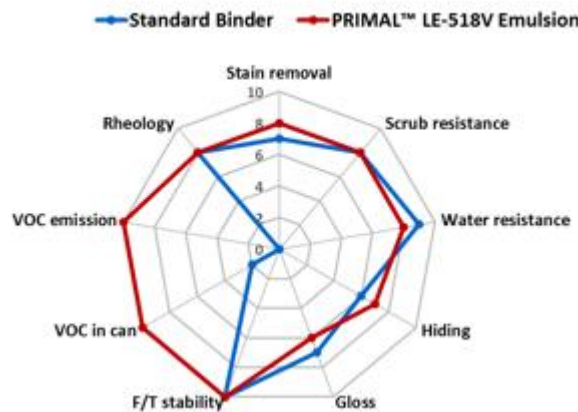


- PRIMAL™ LE-518V Emulsion has one functional stabilizer shell, one nano-scale functional shell and one reactive functional shell, which offers excellent paint stability and formulation robustness.
- PRIMAL™ LE-518V Emulsion's latex particles diffuse in paint system and then fill the defects and air voids during the film formation, resisting liquid stains from penetrating the paint film.



- Paints based on PRIMAL™ LE-518V Emulsion film form safely via an ambient reaction. The only by-product is safe, water vapor. Its functional groups reinforce the film formation which help build a tight, excellent paint film, that facilitates excellent stain removal for both solid and liquid stains.

Performance



Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Coating Materials Technical Representative for more information.

Chemical Registration

Many countries within the Asia-Pacific require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

Note on Asia-Pacific Product Line

Product availability and grades vary throughout the countries in Asia-Pacific. Please contact your local Dow Coating Materials representative for further information and samples.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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