

Calsan[®] 50V

Product description A vegetable-based calcium stearate dispersion for use in paper coatings and cementitious systems; free of animal by-products

- Key benefits**
- Low viscosity provides excellent pumpability and makes the product easy to disperse.
 - Uniform particle size provides a product of superior consistency
 - Low free calcium ion content
 - Rapid dispersion properties; provides improved flow and leveling characteristics
 - Low Sedimentation: The consistency and uniformity of Calsan 50V reduces the tendency to settle in prolonged static storage. (Even so, a storage tank with agitation is recommended).
 - Low Entrained Air: The greater density and uniformity of Calsan 50V promotes ease of application and enables precision feeding

Chemical nature Aqueous calcium stearate dispersion

Properties

Physical form Aqueous dispersion (white liquid)

Technical data (no supply specification)	Solids (non-volatile) content	%	49.0 – 51.0
	pH (Neat)		8.0 – 12.0
	Viscosity at 23 °C (Brookfield RV, Spindle #3, at 100 rpm)	cps	200 – 300
	Free Alkali	%	0.1 (max)
	+325 Mesh Residue	%	0.005 (max)

Application

Calsan 50V is a vegetable-based calcium stearate dispersion in water. It has been formulated specifically to meet the needs of paper coatings as well as concrete admixture producers.

Calsan 50V as lubricant with high bio-renewable content, is suitable for paper coatings. As it is based on palm oil, the product provides good gloss, prevents dusting and fold cracking in paper and paperboard, and is free of animal byproducts, making it ideal for food-contact applications such as food packaging and other applications where use of animal-derived materials is undesirable.

The characteristics of Calsan 50V make it ideal for efflorescence control products used in the production of concrete masonry units and other concrete applications. The free alkalinity and calcium ion content of Calsan 50V are controlled to minimize efflorescence. The calcium stearate in Calsan 50V is dispersed to an extremely fine particle size and stabilized with a unique emulsifier package, allowing it to be easily and uniformly dispersed throughout the concrete mix. The stability of Calsan 50V combined with the extremely low residue levels eliminates most sedimentation problems in storage.

Typical addition amounts of 0.5 – 2.0 parts based on 100 parts dry pigment solids

Storage

Calsan 50V has a shelf life of six months from delivery date, provided it is stored in accordance with the "Handling and Storage of polymer dispersions" brochure. The consistency and uniformity of Calsan 50V reduces the tendency to settle in prolonged static storage. (Even so, a storage tank with agitation is recommended). Technical information regarding the storage of BASF polymer dispersion products is available upon request.

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Validity

This Technical Data Sheet is valid for all versions of the Calsan® 50V.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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