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POLYVINYL ACETATE VTM DISPERSION

TM – Trademark of VEK LLC
V – High-viscosity

Polyvinyl acetate dispersions (PVAD) - are products with extensive ranges of application in the most various spheres. It represents a viscous white single liquid with a relative density of 1.1 g/sm³, being a product of polymerization of vinyl acetate in an aqueous medium in the presence of emulsifying agent and initiator of a polymerization, admixed with plasticizer or without it.

Due to universal adhesive and bonding properties, firmness to ageing, a high gluing ability and ecological compatibility polyvinyl acetate dispersions are widely applied in industry, building and in a life. Not without reason this unique product is said the material of «thousand possibilities».

Chemical properties

Polyvinyl acetate dispersion (PVAD) without plasticizer

Properties

- Is easily applied on adherents
- Transparent and high elasticity of a film
- A high gluing ability
- Forms an elastic glue line
- Stability to mechanical agitating
- Good water resistance and scrub resistance
- Is nontoxic, after drying the film does not evolve harmful materials

Product specifications

Appearance		The white viscous liquid, without lumps and foreign substances, with particle size 1-3 microns. The top skin is supposed.
Solids content	%	49
pH value		4.7 - 6.0
Dynamic viscosity	mPa*s	1.0 - 4.0

Other properties of product

Gluing ability	lbs/gal	450 (0.4)
Plasticizer content	%	unplasticized
Frost resistance, cycles (freezing - thawing) not less		frost-resistant, 4 cycle, (after freezing and next thawing properties are not changing)
Sedimentation at dilution, not more	%	5

Film properties

Film appearance	Transparent
Flexibility	Good
Resistance to ageing	High
Resistance to light	Strong

Applications**Ranges of application**

PVAD V™ - is general-purpose binder, mainly used for the following applications:

- As a glue at manufacturing various leather accessories (handbags, purses, etc.)
- As an adhesive for a paper, cardboard, wood, plywood and cotton, at production of tare and packing from a paper and cardboard, a corrugated cardboard and wood, and also for gluing labels (except the food-processing industry)
- As a binder in water emulsion paints
- As a binder for production polymer-cements, polymer concretes, and seamless floorings
- As a glue at production of binding-stitching works
- As a glue for tare from a paper, cardboard and tree, intended for packaging of foodstuff provided that they not contact with a glue, and also tare for clothes, footwear and etc.
- As a glue for facing ceramic floor and front tiles, as a finishing agent for fabric finishing; in production of fibre glasses and canvas glasses
- As a sizing agent by production of a shoe board
- As a binder at manufacturing glue for furniture industry
- As a glue in production of tobacco goods

Processing

Before using the PVAD V™ it is necessary to blend or shake. Bonding surfaces pretreat from dust, resin, fat stain and other contaminants. It should be thin on one of the gluing surface, thereafter connect with other and slightly press. At increased requirements to bond strength, the PVAD V™ should coat on both bonded surfaces. As far as possible put them under press. Glue consumption makes 50-300 gr. on 1m² depending on the structure of bonded bases. Recommended temperature must not be below +10 °C, relative humidity above 80%. In stated conditions dispersion dries up in a day after coating.

Safety

General

In process of recycling should be provided effective ventilation and personal skin protection equipments and safety glasses. In case of eye/skin contact with a product rinse your eyes/skin in plenty of water. PVAD V™ is nonhazardous. On toxic properties labels to 3 class - product is moderate dangerous.

Storage

Unplasticized dispersion should be stored in a tightly closed container in a dry place at temperature not below +5 °C. It should not be exposed to powerful heating and freezing. Frozen dispersion should be thawed in a warm premises or reheat in tare to temperature not above +80 °C without using open fire at blending. Separation of transparent fluid at storage is possible. Unplasticized dispersion has a shelf life of 12 months from the manufacturing date.

Packaging

All dispersions produced by the company are packaged in modern plastic containers in weight on 800 gr. and in industrial containers: plastic barrels with capacity from 40 to 60 kg. or steel barrels with capacity 200 kg., as well as in any other form of packaging under the agreement with consumer.

Transportation

PVAD V™ is transported in sealed barrels (steel with plastic liner) at temperature not below -40 °C. Handling time of unplasticized dispersion at temperature below 0 °C should not exceed one month.

Note

The information contained in this publication are based on our current knowledge and experience and is intended to provide general notes on our products and their uses. Any other intended applications should be discussed with VEK LLC. In view of the many factors that may affect processing and application of our product, this information does not rescue processors from carrying out their own researches and assays. VEK LLC DOES NOT ASSUME RESPONSIBILITY FOR ANY RESULTS OBTAINED BY PERSONS OVER WHOSE METHODS VEK LLC HAS NO CONTROL AND EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

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