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# POLYVINYL ACETATE U 33<sup>TM</sup> ADHESIVE

<sup>TM</sup> – Trademark of VEK LLC  
U 33 – Universal adhesive

PVA U 33<sup>TM</sup> adhesive - is applied for gluing paper products, cardboard, leather and fabrics. Suitable for gluing linoleum, carpet, facing tile, synthetic wall coatings on a paper basis, fiberglass, vinyl and paper wall coverings, cork, calico strip, building nets and bandages. It can be used for gluing decorative paper-laminated plastic to fibreboard, particle board, medium density fibreboard and to other materials. And also for augmentation of water resistance and for increase of hardness concrete, plaster and putty compositions.

## Chemical properties

PVA U 33<sup>TM</sup> – is polyvinyl acetate dispersion with plasticizer and modifying components

## Properties

- Is easily applied on adherents
- Transparent and high elasticity of a film
- Stability to mechanical agitating
- Good water resistance and scrub resistance
- Low water absorption
- Is nontoxic, after drying the film does not evolve harmful materials
- Glue possesses high bond strength and optimum setting time
- After drying forms firm-elastic adhesive coat, on hardness exceeding hardness of wood

## 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	%	30
pH value		3.3 - 6.0
Dynamic viscosity	mPa*s	2.0 - 15.0

## Other properties of product

Gluing ability	lbs/gal	300 (0.3)
Plasticizer content	%	plasticized
Frost resistance, cycles (freezing - thawing) not less		not resistant to frost

## Film properties

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

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## Applications

### Ranges of application

PVA U 33™ - is general-purpose binder, mainly used for the following applications:

- 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 sizing agent by production of a shoe board
  - As a binder at manufacturing glue for furniture industry
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### Processing

Before using the PVA U 33™ it is necessary to blend or shake up till homogeneous mass. 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 PVA U 33™ should coat on both bonded surfaces. As far as possible put them under press. Glue consumption makes 50-300 gr. on 1m<sup>2</sup> depending on the structure of bonded bases. Recommended temperature must not be below +10 °C, relative humidity above 80%.

## 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. PVA U 33™ is nonhazardous. On toxic properties labels to 3 class - product is moderate dangerous.

## Storage

PVA U 33™ 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. It has a shelf life of 12 months from the manufacturing date.

## Packaging

All PVA adhesives 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

PVA U 33™ is transported in sealed plastic barrels (steel with plastic liner) at temperature not below +5 °C.

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## Note

The information contained in this publication is 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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