



# Vitel® 5833B

## COPOLYESTER COATING RESIN

### KEY FEATURES

- High functionality with isocyanate curatives
- Improves substrate wetting and coating at higher solids content
- Compatible with other soluble Vitel grades

### DESCRIPTION

Vitel® 5833B is a low molecular weight, branched, functional copolyester resin. This highly functional amorphous copolyester offers a high level of reactive sites that provides modified coatings with a greater potential for curing. Due to its low molecular weight, V5833B provides improvements in substrate wetting and coatings at higher solids content within an application. Additionally, this product has great solubility in a variety of solvents including MEK, MEK/toluene blends, cyclic ethers, chlorinated and other strong solvents. This allows for increased options when applying this product from solution.

V5833B provides excellent reactivity with isocyanate curatives when used alone, or when formulated within a system to increase reactive sites to reach the desired properties. Used in conjunction with other Vitel resins, the system can offer improved temperature, solvent and abrasion resistance once cured.

### PACKAGING

V5833B is packaged in bags and drums. Please contact your Bostik representative for additional packaging options.



### TYPICAL PHYSICAL PROPERTIES

Description	Results
Appearance	Clear to pale yellow powder
Specific Gravity	1.26
Viscosity	30,000 cps @140°C
Melt flow (B & R)	99°C (210°F)
CIE Lab Color	b*: 10 max

### Typical Polymer Properties

Molecular Weight	9,800
Acid Number	0-5
Hydroxyl Number	36.5-55.5
Glass Transition Temperature	48°C (118°F)

### SHELF LIFE

The shelf life of V5833B is approximately 365 days when stored in the sealed, original container at temperatures of 5 to 35°C.

### STORAGE & HANDLING

Like all synthetic resins, Vitel 5833B can retain or develop static charge due to its handling. Precautions should be taken to avoid a static discharge. Use caution near flammable vapors.

### APPLICATION TECHNIQUES

V5833B is most frequently applied from solution, so solvent selection is important. This product is soluble in methyl ethyl ketone, methyl ethyl ketone/toluene blends, cyclic ethers, chlorinated or stronger solvents. An appropriate mixing vessel (explosion proof) with agitation should be used. Solutions of 30-40% total solids can be made; however, the viscosity and solids content should be adjusted to application equipment and substrate needs.

Once in solution, V5833B can be used on all dry laminating machines with smooth or rotogravure rollers. The ideal coating viscosity for gravure is between 75-115 cP.

A minimum application weight of 2 g/m<sup>2</sup> (dry) is recommended, but optimum adhesion is obtained with an application weight of approximately 3g/m<sup>2</sup>. For aggressive requirements, the coating weight can be increased to 4 g/m<sup>2</sup> or higher.

### DILUTION

Dilution may be done with PU grades (< 0.1% H<sub>2</sub>O-content) of ethyl acetate, acetone, MEK or a mixture of these solvents.

### SOLUTION POT LIFE

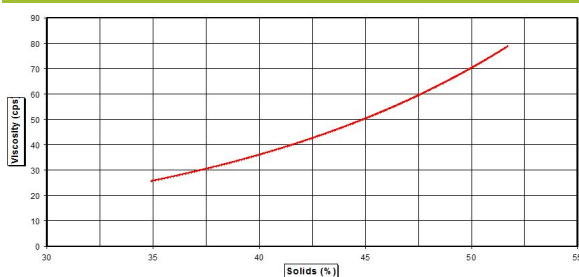
V5833B in solution has very good pot life stability. If the container is well sealed, solution will keep for at least 6 months at room temperature storage.

When used in conjunction with curative, pot life will vary but not recommended to hold reactive solution more than 8 hours before application.

### DRYING

Drying conditions must be adjusted to substrate, application weight and line speed in order to avoid the retention of solvents. The dried and fully cured adhesive film will be transparent and neutral in odor.

### VISCOSITY CURVE - MEK



### ACTIVATION TEMPERATURE

The minimum activation temperature of V5833B is 70°C (158°F) but a temperature of 99°C (210°F) is recommended.

### FOOD LEGISLATION

V5833B complies with many internationally accepted guidelines for the production of articles intended to come into indirect contact with foodstuff. Please contact your Bostik representative with the specific application.

### HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet should be consulted for proper handling, clean up and spill containment before use. Keep containers covered to minimize contamination.

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**BOSTIK HOTLINE**

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