



# Vitel® 2270B

## COPOLYESTER COATING RESIN

### KEY FEATURES

- Excellent clarity, hardness, and abrasion resistance
- Superior cohesive strength and moisture resistance when cross-linked
- Ideal for primers and coatings on polyester films and metals

### DESCRIPTION

Vitel® 2270B is a high molecular weight, linear saturated, copolyester resin. This resin can be used alone or as a modifier in applications where high cohesive strength is of importance. Vitel® 2270B offers excellent clarity, hardness and abrasion resistance with strong adhesion to metals and polyester films. As a copolyester resin, this product also has inherent UV stability and resistance to plasticizers.

### PACKAGING

Vitel® 2270B is sold in 50 lb. bags. Please contact your Bostik representative for other packaging options.

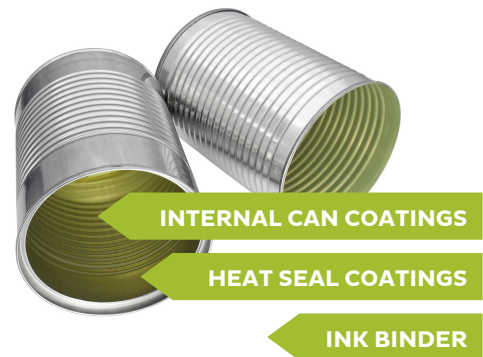
### SHELF LIFE

Vitel® 2270B has a shelf life of approximately 12 months when stored in original, sealed containers at temperatures between 5 and 35°C (41 and 95°F).

### STORAGE & HANDLING

Like all synthetic resins, Vitel® 2270B can retain or develop static charge due to its handling. Precautions against a static discharge should be taken particularly in areas where solvent vapors exist.

Otherwise, there are no special precautions necessary in handling this resin. Under typical ambient conditions, Vitel® 2270B is an inert material.



### TYPICAL PHYSICAL PROPERTIES

Description	Results
Appearance	Clear, light yellow pellets
Specific Gravity	1.23

### TYPICAL POLYMER PROPERTIES

Description	Results
Intrinsic Viscosity	0.76 dl/g
Acid Number	1-2 mgKOH/g
Hydroxyl Number	3-6 mgKOH/g
Molecular Weight (Mw)	47,500 Daltons
Glass Transition Temperature	43 °C

## APPLICATION TECHNIQUES

Since Vitel® 2270B is most frequently applied from solution, solvent selection is important. Vitel® 2270B is soluble in ethyl acetate, MEK, MEK/toluene blends, cyclic ethers, chlorinated or stronger solvents. Once in solution, it can be used on all dry laminating machines, with smooth or rotogravure rollers.

## 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. The adhesive system should be processed at a solids content of approx. 20 - 23% when applied via gravure. Ideal coating viscosity is between 75 - 115 cps.

NOTE: If using 100% ethyl acetate as a solvent, the system will experience a cloud point around 24% solids. If the cloud point is reached, add 10% MEK for better solubility.

## APPLICATION WEIGHT

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

## SOLUTION POT LIFE

Vitel® 2270B in solution has excellent pot life stability. If held in a well sealed container, the solution will keep for at least 6 months at room temperature storage. When used in conjunction with curative, pot life will vary, but it is not recommended to hold the reactive solution more than 8 hours before application.

## DRYING

Drying conditions must be adjusted to the 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.

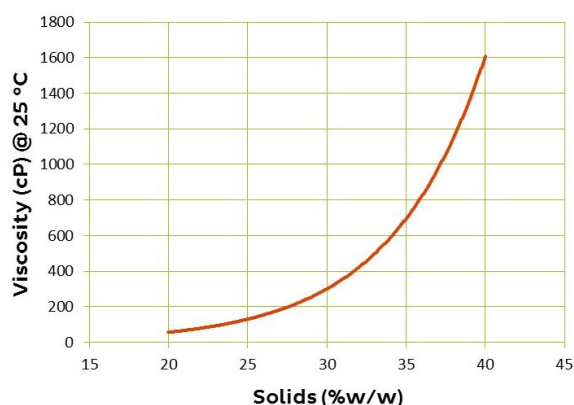
## ACTIVATION TEMPERATURE

The minimum activation temperature is 250°F (121°C) but a temperature of 313°F (156°C) is recommended.

## FOOD LEGISLATION

Vitel® 2270B complies with the positive lists of 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.

## VISCOSITY CURVE - Methyl Ethyl Ketone



## 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.

## LIMITED WARRANTY

The Limited Warranty for this product can be found at [www.bostik-us.com/resource-center/warranties](http://www.bostik-us.com/resource-center/warranties) or by calling 1-800-726-7845 (choose option 2, then option 2 again). To the maximum extent allowed by law, Bostik disclaims all other express or implied warranties, including without limitation warranties of merchantability and fitness for a particular purpose. Unless otherwise stated in the limited warranty, the sole remedy for breach of warranty is replacement of the product or refund of the buyer's purchase price. Bostik disclaims any liability for direct, incidental, consequential, or special damages to the maximum extent allowed by law. Disclaimers of implied warranties may not be applicable to certain classes of buyers and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

## BOSTIK HOTLINE

Smart help  
**1-800-726-7845**

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