



251 E. Palais Rd. Anaheim, CA. 92805. (714) 520-5592, Fax (714) 520-7898, www.Ryvec.com

BFLV-5 BINDER PRODUCT INFORMATION

Ryvec's BFLV-5 Binder is a moisture curing, single component polyurethane binder. It is a fast-reacting binder intended for use in conjunction with SBR crumb rubber or buffings on rubberized playgrounds and other sporting applications. BFLV-5 Binder is a non-UV resistant aromatic polyurethane product.

Binder Specifications:

Viscosity @ 77° F.	2,500 - 4,000 cps
Specific gravity @ 77° F.	1.09
NCO Content	9.5 – 10.5
Flash Point	400° F.

The shelf life of BFLV-5 Binder is 6 months under following conditions:

- The binder should be stored at 60°-80° F and protected against humidity in the original unopened drums.
- Any opened drums should be closed immediately after dispensing is completed. This is important to reduce moisture absorption.
- Partially used drums of binder should be filled with a nitrogen blanket, and tightly sealed.

Typical viscosity of BFLV-5 Binder, at 77° F is 3,000 cps. In extremely low temperatures (Ex. 32° F), the viscosity is as high as 16,500 cps. At extremely high temperature of 100° F, the viscosity of BFLV-5 Binder is as low as 750 cps. The optimal storage temperature is 77° F.

Before working with this product, consult the Material Safety Data Sheet. Read the available information on the proper use and handling of this product.

Notice: Our technical advice, whether given verbally or in writing, is given in good faith but without warranty. It is the customer's obligation to test the products supplied by us for their suitability for the intended application. The application, use and processing of the products are beyond our control, and are the customer's responsibility. Should liability be established for any damage, it will be limited to the value of the goods delivered by us, and used by the customer. We promise to provide products of consistent quality.



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Processing:

In general, SBR rubber used from reground tires will be weaker in tensile strength and elongation than the EPDM rubber. A laboratory trial should be conducted before starting the job.

Extreme temperature variations during curing (day/night variations) will cause thermal movements in the layers. In extremely dry conditions, chemical shrinkage can occur causing cracks. The job should be lightly watered during installation. In general, colder conditions produce a weaker product.

BFLV-5 Binder is a moisture curing binder. The best tensile strength and elongation will be obtained by using 3% to 4% water, based on the amount of binder used. Too much water will produce a weaker product.

The final outcome of the finished product will depend on the experience and the skill of the workers on the job site:

- Mixing time should be consistent at 3-5 minutes. Under-mixing and over-mixing could produce potential problems.
- The working time for the mixture is 15-30 minutes, depending on the temperature and relative humidity. The rubber should be laid in lanes “wet on wet” to prevent the possibility of adhesion problems.
- After cleaning the leveling tool with mineral spirits, the worker must dry the tool to prevent the mineral spirits from diluting the binder on the top surface, and causing possible flaking of the top surface. It is recommended that a solvent be used that will not dilute the binder in case of excessive use.
- When watering the surface, don't exceed 4% water based on the amount of binder used. A hand sprayer should be used, and only by an experienced person instructed in its usage. Adding too much water will drastically reduce the tensile strength and elongation of the finished product.
- Drum heater units are not recommended. They will spot heat the binder, producing variant temperatures throughout the drum. This will result in uneven viscosities and reaction. The binder should be kept in a heat-room for best results.

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