

# URETHANE BINDERS



Polyval has over 10 years experience in developing the finest polyurethane binders, which today are being used in a variety of finished products. Extensive research and development has been done over the years to perfect our binders and to become one of the top suppliers in the market. Polyval has developed two excellent lines (SL-Series and GN-series) to meet your specific needs and provide you with the best solutions for your wide variety of applications. Our binders used in conjunction with EPDM or recycled rubber make excellent finished products such as; child playgrounds, running tracks, speed bumps, parking blocks and many more. We supply only premium quality binders, offering innovative solutions for your products.

The SL-Series is a high performance single component polyurethane binder that is offered in a variety of colors. It has been tested to be water and abrasion resistant and has excellent flexibility and adhesion. These binders are entirely solvent-free and are very safe for the end-user.

Polyval polyurethane binders are specifically designed with the proper tensile and elongation properties to work in conjunction with the rubber to provide maximum resiliency and impact resistance. Our binders combined with recycled shredded rubber or EPDM produce the safest surface possible and are designed to protect children from injury. The SL-Series meets the head injury standard for impact attenuation performance requirement for playground surfaces as per ASTM F-1292.

## PRODUCT FEATURES

- High flexibility properties
- Solvent free - environmentally friendly
- Excellent shock absorption
- Easy to apply and repair
- Can be used with rubber granulate (SBR & EPDM)
- Excellent adhesion for maximum performance

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## AVAILABLE PRODUCTS FOR POUR – IN – PLACE

**SL-SERIES:** A moisture cure, single component polyurethane binder. It is designed for safety surface applications. The SL-Series is based on premium quality diphenylmethane diisocyanate (MDI). It is available in Clear, Beige, Blue, Red, and Green.

**SL-8076:** A moisture cure, single component polyurethane binder. It is designed for track and field playground applications. The SL-8076 is based on premium quality aliphatic polyurethane prepolymer for excellent U.V. stability.

- TYPICAL USES**
- Safety playgrounds
  - Synthetic surfaces
  - Running tracks
  - Sport facilities



## MOISTURE-CURED POLYURETHANE BINDERS

Moisture-cured polyurethane binders are used in conjunction with re-milled rubber waste or rubber crumb. Polyval manufactures many different binder systems to meet specific needs in a variety of applications. From rubber mats to molded speed bumps, polyurethane binders, need to suit a range of different application conditions. High flexibility and excellent adhesion are some of the high performance properties our binders provide. The GN-Series in combination with recycled rubber help reduce waste and help protect the environment. Molded finished products, which are produced with the GN-Series use over 90% of recycled rubber. Polyval uses only high-quality raw materials to provide you with an excellent finished product.

## GN-SERIES FOR MOLDING PRODUCTS

The GN-series is a high performance polyurethane binder that is specifically designed to create molded products using re-milled rubber. Typical products which can be molded with our GN-series are the following: parking blocks, dock bumpers, speed bumps, sound proof barriers, tiles and many more applications. It has excellent flexibility and adhesion to the rubber and has virtually no smell. These binders are entirely solvent-free and are **environmentally friendly**.

### Available Products

- GN – 410
  - GN – 416
  - GN – 417
  - GN – 420
  - GN – 1405
- The GN-series has a list of specific products that have been formulated for different types of applications. Contact one of our sales representatives to guide you through the best product fit for your application needs.

## TYPICAL APPLICATIONS



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