



DESCRIPTION

X-1 FLEXGRIP is a two component, 1:1, 100% solids, fast set, liquid applied, polyurea hybrid liner designed for High-Pressure 2-Component machines. X-1 FLEXGRIP has a Shore A 90 hardness with a 200% elongation rating. It has excellent impact, abrasion and corrosion resistance, and provides a high level of skid resistance, sound deadening, and vibration absorption. Its formulation is extremely flexible while maintaining its integrity under repeated flexing, regardless of film thickness.

TYPICAL APPLICATIONS

- Aggressive non-slip performance applications.
- Commercial trucks and cargo trailers.
- Lift gates, trailers and material handling equipment.
- Sound deadening and vibration absorption applications.

KEY FEATURES

- Elastomeric properties allow for application to surfaces subject to: vibration, expansion, contraction, movement, flexing, abrasion and impact.
- Formulation provides toughness while retaining non-skid grip.
- Stable from -40° to 175° F (-40° to 80° C).
- Good for chemical & impact resistance.
- Excellent for weather & corrosion protection.
- Aggressive non-slip performance can be achieved with aggregate integrated into lining.









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TYPICAL PHYSICAL PROPERTIES

(For components) **COMPONENT A COMPONENT B** Solids by weight and volume 100% 100% Viscosity at 77°F (25°C) 450 cps 550 cps Specific Gravity (grams/cc) 1.13 1.03 Mixing ratio by volume 1 1 Shelf Life - Unopened Containers 12 months 6 months

(For cured material) TEST METHOD **RESULTS** Shore A hardness ASTM D-2240 90 ± 5 Tensile strength ASTM D-412 1100 - 1500 psi Elongation ASTM D-412 150 - 200 % 200 - 250 pliTear, Die C ASTM D-624 Impact Resistance ASTM D-256 160 lbs Compressive Strength (psi) ASTM D-695-96 800 Taber Abrasion Resistance (mg of loss/1000 cycles) 55 - 70ASTM D-4060 CS17 Wheel; 1000 grams weight

PROCESS SPECIFICATIONS

Equipment pre-heater temperature Component A 160°F 71°C Component B 150°F 65°C Hose temperature 160°F 71°C Spray pressure 2000 PSI 138 Bar Gel time at equipment temperature 4-5 seconds

Tack free time 4-5 seconds Recoat 4-5 seconds Max 4 hrs

MIXING

X-1 FLEXGRIP may not be diluted under any circumstances.

Mix X-1 FLEXGRIP Side-B (Polyol) Base material with a mechanical drum mixer until a homogeneous mixture and color is obtained. Do not allow air to be incorporated into the product. Total suspension must be achieved.

X-1 FLEXGRIP Side-A (Isocyanate) requires no mixing.

COVERAGE

Due to its fast set nature X-1 FLEXGRIP may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 1600 sq. ft. at 1 mil. Practical coverage @ 100 mils = $50 \text{ ft}^2/3 \text{ gal}$.

Dry film thickness range varies based on application, typically a minimum of 1/16" (62.5 mils; 1.5mm) up to unlimited thickness.

HANDLING PROCEDURES

During Processing, both A & B drums should be fitted with desiccant dryer system. Keep containers closed, when possible, to exclude any atmospheric moisture. Blanket both components with dry nitrogen when storing drums that have been opened.

STORAGE

X-1 FLEXGRIP components should be stored in sealed containers at $60 - 90^{\circ}$ F ($15 - 32^{\circ}$ C) in a dry area. Avoid exposure to freezing temperatures. Store on wooden pallets to avoid direct contact with the ground.



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PACKAGING

A set of X-1 FLEXGRIP consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component. Net weight per set is 910 pounds (412.7 kg).

COLOR OPTIONS

Colors - Black, Industrial Tan, Industrial Grey, Industrial Brown, Graphite, Spice Brown, Red, Indigo Blue, Emerald Green or unpigmented (natural). Custom colors are also available by special order. This is an Aromatic product, colors may change with UV exposure. Use of a UV Topcoat provides tough, light stable, protection from color change and dulling of the surface and allows custom color matching, even metallic

PRECAUTIONS

Protect from exposure to moisture. Water will cause the "A" component (ISO) to generate carbon dioxide with resulting high pressure in closed containers.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your Pinnacle representative or visit our website for current technical data and instructions.

TECHNICAL SUPPORT

We have a dedicated technical support team offering knowledgeable support for everything from preventative maintenance, equipment calibration and servicing through to coating and foam application advice. If you have any questions regarding the use of this product please call us toll free at 1-800-901-0088 or email us info@pinnaclewest.net.

ON-SITE TRAINING

Our on-site training programs provide the necessary equipment and application training, including the health and safety aspects, needed to apply a wide variety of products. The goal of our programs are to give the skills required to be a professional and productive installer.

LIMITED WARRANTY

Pinnacle West Enterprises Inc. warrants its products to be free of manufacturing defects and that they will meet Pinnacle West Enterprises Inc. current published physical properties when properly installed according to Pinnacle West Enterprises Inc. guide specifications and product data sheets over a sound, properly prepared substrate. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Pinnacle West Enterprises Inc. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Pinnacle West Enterprises Inc. shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Pinnacle West Enterprises Inc. shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Pinnacle West Enterprises Inc. reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

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