

▶ PU20

ADVANCED POLYURETHANE SEALANT

PU20 is an advanced polyurethane sealant. It is a highly viscous, highly flexible, high strength, environmentally friendly, moisture cured, waterproof trowel/butter grade, premium polyurethane formula. It can be used in a variety of applications, including the manufacturing and installation of air conditioning in HVAC systems, sealing around doors, windows, automotive glass, siding, excellent adhesion to non-porous substrates, kitchen and bath sealing applications. Due to its excellent adhesion, it can also be used on a variety of materials such as stone, brick, metal, galvanized steel, wood, concrete, marble, ceramic and glass. It is designed to create a watertight liquid flashing for intricate areas and details where heavy water is expected. PU20 is high performing, durable, and has excellent vertical hang.

FEATURES & BENEFITS

- ▶ Weatherproof
- ▶ Paintable
- ▶ High Strength
- ▶ High Flexibility
- ▶ Construction Industry, Used in the Cavities of Joints between Building Elements
- ▶ Resists Fungus & Mildew
- ▶ Incredible Adhesion to Wood, Metal, Stone, Glass, Ceramic, Marble, Plastic & More
- ▶ Eco Friendly
- ▶ Chemical Resistant
- ▶ No Over Joint Expansion-Bubble Free Curing

TYPICAL USES

- ▶ Manufacturing
- ▶ Automotive
- ▶ Sealing Doors & Windows
- ▶ Sealing Wall Siding
- ▶ Kitchen & Bath Applications
- ▶ Industrial Applications
- ▶ Walk-In Coolers & Freezers
- ▶ General Construction
- ▶ Assembly of Aluminum, PVC, Wooden Framing
- ▶ Installation of Roof Tiles

DIRECTION OF USE

Surface Preparation

Review all technical data sheets, system sheets, labels, instructions, SDS, and Guide Specifications before applying. Perform a test area for material familiarity and performance. Surface must be dry and clean. Do not apply over contaminated surfaces. Remove dirt, and foreign material detrimental to adhesion or application of PU20. Apply a primer if necessary.

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DIRECTION OF USE

Application

For 10 oz tubes and 20 oz sausages, refer to the Application Chart for bead sizes and application rates. In cold weather, store packages at approximately 68°F (20°C) before use. Cut nozzle to the appropriate bead size. Apply with manual or pneumatic caulking gun. Push sealant into the substrate and seal any openings. Smooth the joint with soapy water. Opened cartridges should be used the same day. During application, avoid air-entrapment. Avoid contact with alcohol and other solvent cleaners during cure. Maximum depth of sealant must not exceed .47" (12mm or 472 wet mils), minimum depth is .02" (.5mm or 20 wet mils). For bucket packaging apply with a trowel, spatula, or brush. Spread evenly, and leave smooth. Cure times will depend on environmental conditions. As humidity rises, the cure time will decrease. At 72°F (22°C), 50% R.H., a 1/4" bead will cure in 24 hours.

Limitations

Do not apply over moist/damp surfaces. Always review Safety Data Sheet (SDS) for health hazards and information on Personal Protective Equipment (PPE). Do not apply at a temperature below 41°F (5°C). PU20 cannot be applied on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plasticizers, or certain solvents which could attack the sealant. If a moisture-vapor-transmission condition exists from the substrate, it can cause bubbling with the sealant. There can be a slight color change in white and gray shades when exposed to ultraviolet rays.

Chemical Resistance

Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergent. Not resistant to alcohols, organic acids, concentrated alkalis, concentrated acids, and chlorinated (hydro-carbons) fuels.

SAFETY & PRECAUTIONS

Cleanup

Before PU20 has completely cured, clean tools and excess material with alcohol, acetone, solvents or other equal solutions as required by job conditions and as permitted by local, state, and federal regulations. After curing, clean up can be achieved by using abrasive methods.

Storage & Handling

Keep containers closed and stored in a dry, cool place away from heat, sparks, open flame, and moisture. Keep material stored above 65°F (18°C) and on wood pallets off concrete floors.

Shelf Life

10 oz tubes and 20 oz sausages – 12 months, between temperatures of 41°F (5°C) to 77°F (25°C). Practice proper stock rotation.

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SAFETY & PRECAUTIONS

Safety

FIRST-AID: Read technical data sheet and safety data sheet before use. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation, wear respiratory protection. Specific treatment (see Section 4 of SDS). Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. IF EXPOSED OR CONCERNED: seek medical advice/attention. IF IN EYES: Rinse cautiously with water. If eye irritation persists, seek medical advice/attention. IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water (or shower). If skin irritation occurs, seek medical advice/attention. IF INHALED: Remove person to fresh air. If experiencing respiratory symptoms, call a Poison Center/Doctor. IN CASE OF FIRE: Check Section 5 (Fire Fighting Measures).

TECHNICAL DATA

Tack Free Time	> 90 minutes @ 75°F (24°C) / 50% RH
Elongation	> 500 (ASTM D-412)
Tensile Strength	1450 psi (ASTM D-412)
Hardness ASTM-2240	45 (ASTM D-2240) Shore A
Specific Gravity	1150 grams / liter (ASTM D-1045-86)
Application Temperature	41°F (5°C) to 95°F (35°C)
Temperature Resistance	-22°F (-30°C) to 176°F (80°C)
Volatile Organic Compound (VOC)	81 grams / liter
Cure Rate (1 day)	80 mils @ 75°F (24°C) / 50% RH

* This information is intended only as a guide for design purposes. The values shown are the average values obtained from sprayed laboratory samples. The test methods were performed per the ASTM Book of Standards. Higher or lower temperature & humidity conditions will affect dry time. The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

Please read all information in the general guidelines, technical data sheets, application guide, and safety data sheets (SDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Ghemco Representative or visit our website for current technical data and instructions. DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ghemco makes no claim that these tests or any other tests, accurately represent all environments.