

▶ AP20

ADVANCED POLYMER SEALANT

AP20 is an advanced polymer sealant. It is a highly viscous, highly flexible, low VOC, solvent, and isocyanate free, environmentally friendly, moisture cured, waterproof trowel/butter grade enhanced polymer formula. It can be used in a variety of applications, such as sealing around doors, windows and siding, connection joints of wood and metal structures, kitchen and bath sealing applications, and concrete joints. It is designed to create a watertight liquid flashing for intricate areas and details. AP20 is high performing, durable, reflective, UV resistant, non-yellowing, and has excellent vertical hang.

FEATURES & BENEFITS

- Easy Application
- Weatherproof
- Paintable
- Low VOC's
- Solvent & Isocyanate Free
- Resists Mildew
- Environmentally Friendly
- Resistant to UV
- Resistant to Chemicals
- Excellent Vertical Hang

TYPICAL USES

- Manufacturing
- Sealing Doors, Windows & Siding
- Connection Joints of Wood and Metal Structures
- Kitchen & Bath Sealing
- Installation & Insulation of Facade Elements
- Building Facades
- Roofing Constructions
- Concrete Joints

SPECIFICATIONS

- AP20 meets or exceeds the requirements of ASTM C920 Type S, Grade NS, Class 25, Use NT, G, A, M,
- ASTM C719
- ASTM C794
- AAMA799
- AAMA 8102.3-92 Type II
- AAMA 803.3-92 Type 1
- Federal Specification: TT-S-00230C (COM-NBS) Type II, Class A
- Canadian Specification: CAN/CGSB-19, 13-M87



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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 AP20.

Application

For 10 oz tubes and 20 oz sausages, refer to the Application Chart for bead sizes and application rates. Cut nozzle to the appropriate bead size. Apply with caulking gun. Push sealant into the substrate and seal any openings. 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. Allow sealant to dry 2-4 hours (longer in cool or humid conditions) before painting with latex or oil-based paints.

Limitations

Do not apply over moist/damp surfaces. Always review Safety Data Sheet (SDS) for health hazards and information on Personal Protective Equipment (PPE). Apply in temperatures above 40°F (4°C). Do not apply when rain or freezing temperature are fore-casted within 24 hours. Cooler temperatures and higher humidity will slow down dry time.

SAFETY & PRECAUTIONS

Cleanup

Clean up excess wet caulk with a damp sponge before it skins over. Excess dried caulk must be cut or scraped away. Clean hands and tools with warm water and soap, or other equal solutions as required by job conditions and as permitted by local, state, and federal regulations.

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. Open containers, such as pails and drums, should be blanketed with dry nitrogen before resealing.

Shelf Life

10oz tubes and 20oz sausages – 18 months.
Practice proper stock rotation.

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 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).

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TECHNICAL DATA



Skin Time	< 20 minutes @ 72°F (22°C) 1/4" Bead per 24 Hrs/ 50% RH	
Tack Free Time	< 60 minutes @ 72°F (22°C) 1/4" Bead per 24 Hrs/ 50% RH	
Cure Rate	< 24 hours @ 72 ° (22°C) 1/4" Bead per 24 Hrs/ 50% RH	
Movement Capability	± 25%	ASTM C719
Elongation	250%	ASTM D412
Tensile Strength	200 psi	ASTM D412
Shore A Hardness	35 ± 5	ASTM C661
Maximum VOC	9 grams / liter	ASTM D3960
Specific Gravity	1,71 + 0,03 g / cm3	
Application Temperature	41°F (5°C) to 95°F (35°C)	
Temperature Resistance	-40°F (-40°C) to 194°F (90°C)	
Sag/Slump	None	
Stain/Color Change	None	
Chalking/Cracking	None	
UV Resistance	Excellent	
Water Resistance	Excellent	
Paintable	Yes	

SEALANT COVERAGE RATES

APPROXIMATE* LINEAR FEET/COVERAGE PER 10.1 FL. OZ. CARTRIDGE(298ML)

		WIDTH							
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
DEPTH	1/8"	99	49	33	24	20	16	14	12
	1/4"		24	20	12	10	8	7	6
	3/8"			11	8	6	5	5	4
	1/2"				6	5	4	3	3

* All values are approximations based upon industry information and can vary dramatically due to joint dimensions/configurations, porosity, texture or substrates, irregularities, installation techniques, waste etc. that are beyond GHEMCO's control. GHEMCO is not liable

*This information is intended only as a guide for design purposes. The values shown are the average values obtained from 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.