



HYDRABOND 360[°]™
By Synergy Building Technologies

DESCRIPTION

HydraBond 360[°]™ is a waterborne modified elastomeric coating formulated both as a single part seamless monolithic emulsion or a two-component fast setting product. When fully solidified, the coating provides a high-quality membrane delivering protection against water and chemical intrusion.

HydraBond 360[°]™ is designed for use when onsite conditions dictate manual application. Its excellent bridging properties make it a superior choice for repair work.

BASIC USES

- Roof Protrusions
- Joints and Seams
- Pre-Fabrication Sealing
- Machinery Coating
- Repairs

MAJOR ADVANTAGES

- Safe alternative to hot-applied bitumen or solvent-based products
- Excellent waterproofing
- High chemical resistance (see resistance chart)
- Ease of application
- Can be used with or without Geotech fabric
- Resistant to cracking and aging
- Self-Healing
- Impact, Abrasion and Puncture Resistant
- Salt Resistant
- Non-Conductive, Static Build-Up Resistant
- 24-hour dry depending on environmental conditions
- Can be applied to most substrates including concrete, wood, foams and metal

TECHNICAL AND PRODUCT DATA

Percent Non-Volatile.....	61.0
pH	10– 12
Specific Gravity	1.06
Odour.....	Slight Aromatic
Viscosity.....	Thick
Volatile Organic Compounds.....	<1 g/L
Colour	Brown to Black

SPECIFICATIONS

ASTM #	Requirement	Result	Comment	Description of test
AATCC 127	No leakage through membrane after 55cm water head for 5h	No Leakage	Pass	Water Resistance
ASTM D1970	No leakage through nail or underlayment after 125cm water head for 72h @ 4C	No Leakage	Pass	Nail Seal ability
ASTM D4541	110 kPa	192 kPa	Pass	Pull Adhesion-Gypsum board
ASTM D4541	110 kPa	189 kPa	Pass	Pull Adhesion -Concrete
ASTM D4541	110 kPa	222 kPa	Pass	Pull Adhesion -Plywood
ASTM C1305	No cracks, splitting or pinholes after 10 cycles @-26C	None	Pass	Crack Bridging
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Initial
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Water immersed
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Heat aged
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Chemically aged (NaOH)
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Chemically aged (Acetic acid)
ASTM C836	No visible cracking, blistering, pinholes or other defects	No break in membrane	Pass	Crack Bridging-Ultraviolet exposed
ASTM E96	Declare	0.1 US Perms	None	Water Vapor Permeance
ASTM D1970	No Cracking	No Cracking	Pass	Low Temperature Flexibility-26C
ASTM D412	Declare	1128%	None	Elongation
ASTM D412	Declare	701kPa	None	Tensile Strength
ASTM D412	Declare	90% Recovery	None	Tensile Recovery
ASTM 2240	50	74.5	Pass	Hardness Shore 00 Hardness #
ASTM C836	Pass 1.5+/- .1	1.45	Pass	Film Thickness
ASTM C836	>175	3590	Pass	Adhesion in Peel-Initial
ASTM C836	>175	960	Pass	Adhesion in Peel-Maximum application temperature

ASTM C836	>175	8000	Pass	Adhesion in Peel-Minimum application temperature
ASTM C836	>158	3030	Pass	Adhesion in Peel-Water immersed
ASTM #	Requirement	Result	Comment	Description of test
ASTM C836	>158	5600	Pass	Adhesion in Peel-Heat aged
ASTM C836	>158	4200	Pass	Adhesion in Peel-Ultraviolet exposed
ASTM E154	Declare	22N>205 MM	None	Puncture Resistance
ASTM D751	Declare	No Leakage	None	Hydrostatic Pressure Resistance
ASTM E2178	0.004	0.0018	Pass	Evaluated Air Barrier Materials Air Permeance
ASTM E2357	0.04	0.018	Pass	Evaluated Air Barrier Materials Air Leakage Rate
ASTM D638	> 90% of initial value 0.108	0.66	Pass	Tensile Strength at Break-Heat Aged
ASTM D638	> 90% of initial value 0.108	0.12	Pass	Tensile Strength at Break-Chemically Aged (NaOH)
ASTM D638	> 90% of initial value 0.108	0.2	Pass	Tensile Strength at Break-Chemically Aged (Acetic acid)
ASTM D638	> 90% of initial value 0.108 >90% of Initial	0.24	Pass	Tensile Strength at Break-Ultraviolet exposed
ASTM D638	Value 48.32	51.54	Pass	Recovery Performance-Heat Aged
ASTM D638	>90% of Initial Value 48.32	53.19	Pass	Recovery Performance-Chemically Aged (NaOH)
ASTM D638	>90% of Initial Value 48.32	48.74	Pass	Recovery Performance-Chemically Aged (Acetic acid)
ASTM D638	>90% of Initial Value 48.32	49.09	Pass	Recovery Performance-Ultraviolet Exposed
UL	Class A	Class A	Pass	UL Testing Roofing Assembly

Required Thickness (c ured membranes)		Coverage		
Mils	MM	Sq.ft./gal	M2/gal	m / litre
40	1.02	30	2.79	0.74
60	1.53	20	1.86	0.49
80	2.04	15	1.39	0.37
100	2.55	12	1.11	0.29
120	3.06	10	0.92	0.24
140	3.55	8.5	0.78	0.21
160	4.08	7.5	0.69	0.18
180	4.59	6.6	0.61	0.16
200	5.1	6.0	0.55	0.15

PRECAUTIONS:

This is a Commercial & Industrial product. Not for use by Untrained Personnel

APPLICATION INSTRUCTIONS

- This product is mildly alkaline. Before applying, read associated Safety Data Sheet and follow guidance on proper personal protective equipment and material handling
- Do not store or use this material below 41°F (5°C)
- Do not store in direct sunlight or at very high temperatures
- Mix Material well before using

Refer to Application Data sheet for Additional Precautions and Safe Handling Procedures.

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