

DOLPHIN 7440

WATER-BORNE INSULATION ADHESIVE

DESCRIPTION: This fast tacking, water-borne, pressure sensitive adhesive is designed for bonding fiberglass insulation, paper and other lightweight materials to steel, stainless steel, aluminum, glass and many painted surfaces. This SBR based adhesive was formulated to bond fiberglass insulation to the walls of HVAC units. Once the adhesive has dried, it will withstand the extremes of exposure from temperatures of -20° F to over 100° F., and from the wind shear encountered in air handling equipment. This latex adhesive provides high bond strengths with very short drying times without the health and safety hazards associated with solvent borne adhesives.

APPLICATION: This adhesive can be spray, brush or roller applied. After application to the porous surface (e.g. fiberglass, paper, fabric), allow the water to evaporate from the adhesive (about 5 minutes) before closing. Mate the flexible material to the rigid substrate and press or roll the bonded materials together. Adhesive should not be applied to materials that are colder than 40° F. Full strength will be achieved after 48 hours dry at 70° - 80°F.

PROPERTIES:

Specific Gravity:	1.04 – 1.08
Solids:	35 – 40%
pH:	8 - 9
Freeze/Thaw Stability: ASTM D 2243	Pass (normal consistency returns after mixing)

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**THE FOLLOWING TESTS WERE PERFORMED
AFTER DRYING 48 HOURS @ 72°F.; 50% R.H.**

Adhesion, Peel: ASTM D 903; 180° pull	4.0 piw from glass 4.2 piw from cold rolled steel 3.8 piw from aluminum 4.2 piw from stainless steel 3.8 piw from fiberglass
Adhesion, Shear ASTM D 816	41 psi from cold rolled steel 35 psi from aluminum 39 psi from stainless steel 20 psi from fiberglass
Low Temperature flexibility: ASTM C 711 1" mandrel @ -20° F.	No cracking No loss of adhesion
Effects of Heat Aging: ASTM C 792 168 hours @ 158° F	Flexibility maintained No loss of adhesion
Humidity Resistance: ASTM D 2247 250 hours @ 100° F; 100% RH	No loss of adhesion
Surface Burning Characteristics UL 732	Flame Spread Index – 15 Smoke Developed Index - 35

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