IDEAL (VS) LTD
10685-B HAZELHURST DR.
SUITE 14242
HOUSTON, TX 77043, U.S.A
TEL: 832-243-9090
FAX: 832-243-9191

IVS - 30 (AF)

DESCRIPTION:

IVS-30 (AF) is a white coating, creamish finish, which is also an excellent adhesive. It is non-toxic and **mildew resistant**. It meets military specifications MIL-A-3316B, Class 1, Grade A & B.

USES:

IVS-30 (AF) is used for adhering fabric such as canvas cloth, brattice cloth, glass cloth etc. to thermal insulation of duct and pipe work in air-conditioning installations (internal or external).

IVS-30 (AF) is also used as an adhesive for sticking plastic foam insulation such as polystyrene, polyurethane, polyisocyanurate etc. with metallic pipes and ducts.

For external use it is recommended to apply one or two coats of IVS-60 also over and above IVS-30 (AF) dry surface.

ADVANTAGES:

IVS-30 (AF) is non-flammable in the wet state and fire resistive when dry. It has got high dose of anti mildew chemicals which prevent black spots (fungus formation) even in humid areas. It is non-toxic and safe to use under most applications including food processing areas.

APPLICATION:

IVS-30 (AF) can be applied by brush, roller or spray gun. Canvas can also be dipped directly where shrinkage and saturation are required. Before applying IVS-30 (AF) all surfaces must be clean, dry and free from dust, grease and loose material. First coat of IVS-30 (AF) along with canvas should be allowed to dry completely before applying second coat of IVS-30 (AF) or any other vapor barrier.

SPECIFICATIONS:

IVS-30 (AF) meets ASTM C 916, Type 1 adhesive classification requirements. It has passed flammability testing and is classified as flame resistant and self extinguishing per US Code of Federal Regulations 14CFR23.853. It has been tested to meet class 1 surface flammability requirements of UL 181, 25/50 requirements of NFPA standard 90A, and dry film hazard requirements of GSA.

IVS-30 (AF) meets requirements for LEED credits per IEQ 4.2 Low Emitting Materials - Paints & Coatings.
VOC: 40 g/L less water and exempt solvents.

COLOR	WHITE (36), RED (20)
WET WEIGHT	10.3 LBS / US GALLON
AVERAGE NON-VOLATILE	45% BY VOLUME
TEMP. RANGE (coated surface)	-20°F to 180°F (250°F INTERMITTENT)
DRYING TIME (varies with thickness, climatic conditions)	TO TOUCH : 2 - 3 HOURS THROUGH : 12 - 36 HOURS
COVERAGE RATE (varies with thickness, surface, method of application)	100 - 150 SQ. FT. / US GALLON
WATER VAPOR PERMEANCE (ASTME-96 Procedure B)	0.90 PERMS
WET FLAMMABILITY (ASTM D93-73)	NON FLAMMABLE
FLAME RESISTANCE (14CFR23.853) *Test report ID: HW-241529*	BURN RATE : 0 inch/min *Meets flame resistant and self extinguishing classification requirements*
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255) *UL test repot ID: R19250 / 99NK41642 test no. 2*	SURFACE : 1/4" ASBESTOS CEMENT BOARD TEST COVERAGE RATE : 100 SQ. FT. / US GALLON FLAME SPREAD INDEX : 0 SMOKE DEVELOPED INDEX : 5

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IVS - 30 (S)

DESCRIPTION:
IVS-30 (S) is a white coating, creamish finish, which is also an excellent adhesive. It is non-toxic. It meets military specifications MIL-A-3316B, Class 1, Grade A & B.

USES:
IVS-30 (S) is used for adhering fabric such as canvas cloth, brattice cloth, glass cloth etc. to thermal insulation of duct and pipe work in air-conditioning installations (internal or external).

IVS-30 (S) is also used as an adhesive for sticking plastic foam insulation such as polystyrene, polyurethane, polyisocyanurate etc. with metallic pipes and ducts.

ADVANTAGES:
IVS-30 (S) is non-flammable in the wet state and fire resistive when dry. It is non-toxic and safe to use under most applications including food processing areas.

APPLICATION:
IVS-30 (S) can be applied by brush, roller or spray gun. Canvas can also be dipped directly where shrinkage and saturation are required. Before applying IVS-30 (S) all surfaces must be clean, dry and free from dust, grease and loose material. First coat of IVS-30 (S) along with canvas should be allowed to dry completely before applying second coat of IVS-30 (S) or any other vapor barrier.

SPECIFICATIONS:
IVS-30 (S) meets ASTM C 916, Type 1 adhesive classification requirements. It has passed flammability testing and is classified as flame resistant and self extinguishing per US Code of Federal Regulations 14CFR23.853. It has been tested to meet class 1 surface flammability requirements of UL 181, 25/50 requirements of NFPA standard 90A, and dry film hazard requirements of GSA.

IVS-30 (S) meets requirements for LEED credits per IEQ 4.2 Low Emitting Materials - Paints & Coatings.
VOC: 40 g/L less water and exempt solvents.

COLOR	WHITE (36), RED (20)
WET WEIGHT	10.3 LBS / US GALLON
AVERAGE NON-VOLATILE	45% BY VOLUME
TEMP. RANGE (coated surface)	-20°F to 180°F (250°F INTERMITTENT)
DRYING TIME (varies with thickness, climatic conditions)	TO TOUCH : 2 - 3 HOURS THROUGH : 12 - 36 HOURS
COVERAGE RATE (varies with thickness, surface, method of application)	100 - 150 SQ. FT. / US GALLON
WATER VAPOR PERMEANCE (ASTME-96 Procedure B)	0.90 PERMS
WET FLAMMABILITY (ASTM D93-73)	NON FLAMMABLE
FLAME RESISTANCE (14CFR23.853) *Test report ID: HW-241526*	BURN RATE : 0 inch/min *Meets flame resistant and self extinguishing classification requirements*
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255) *UL test report ID: R19250 / 99NK41642 test no. 2*	SURFACE : 1/4" ASBESTOS CEMENT BOARD TEST COVERAGE RATE : 100 SQ. FT. / US GALLON FLAME SPREAD INDEX : 0 SMOKE DEVELOPED INDEX : 5

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IVS - 60 (AF)

DESCRIPTION:
IVS-60 (AF) is a polymer based vapor barrier and weather proof coating designed for protection of internal / external thermal insulation. Standard color is white (36) but also available in many other colors upon request. In addition to its excellent vapor barrier characteristics, it has got good adhesive properties also.

USES:
IVS-60 (AF) can be used as vapor barrier coating for interior and exterior thermal insulation for protection of air conditioning ducts and pipes. 1 or 2 coats of IVS-60 (AF) on finished surface of insulated ducts and pipes will make the installation almost weather proof from vapor penetration into the insulation.

ADVANTAGES:
IVS-60 (AF) will not crack in exterior applications. It has excellent drying characteristics offering the advantages of almost immediate protection from rain. The dry film of IVS-60 (AF) is fire resistant, tough but still flexible. It is also resistant to many acid and alkalis and insures the highest quality vapor barrier coating system. It has got anti mildew chemicals which prevents black spots (fungus formation) even in humid areas.

APPLICATION:
IVS-60 (AF) can be applied by brush or by spray gun. It is not recommended for direct contact with polystyrene foam insulation.

SPECIFICATIONS:
IVS-60 (AF) has passed flammability testing and isclassified as flame resistant and self extinguishing per US Code of Federal Regulations 14CFR23.853. It has been tested to meet class 0 surface flammability requirements of UL 181, 25/50 requirements of NFPA standard 90A, and dry film hazard requirements of GSA.

IVS-60 (AF) meets requirements for LEED credits per IEQ 4.2 Low Emitting Materials - Paints & Coatings.
VOC: 40 g/L less water and exempt solvents.

COLOR	WHITE (36), LIGHT GRAY (12), LIGHT BLACK (24)	
WET WEIGHT	11 LBS / US GALLON	
AVERAGE NON-VOLATILE	35% BY VOLUME	
TEMP. RANGE (coated surface)	-40°F to 190°F	
DRYING TIME (varies with thickness, climatic conditions)	TO TOUCH (SPRAY) TO TOUCH (BRUSH) THROUGH	: 1 HOUR : 2 HOURS : 24 HOURS
COVERAGE RATE (varies with thickness, surface, method of application)	50 - 150 SQ. FT. / US GALLON	
WATER VAPOR PERMEANCE (ASTME-96 Procedure B)	0.01 - 0.02 PERMS	
FLAME RESISTANCE (14CFR23.853) *Test report ID: HW-241526*	BURN RATE *Meets flame resistant and self extinguishing classification requirements*	: 0 inch/min
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255) *UL test report ID: R19250 / 99NK41642 test no. 3*	SURFACE TEST COVERAGE RATE FLAME SPREAD INDEX SMOKE DEVELOPED INDEX	: 1/4" ASBESTOS CEMENT BOARD : 100 SQ. FT. / US GALLON : 0 : 0

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IVS - 80

DESCRIPTION:
IVS-80 is a fast tacking elastomeric adhesive, specifically designed for application by brush or using low pressure spray equipment. It produces little buds of adhesive when it is sprayed. These buds bite in the porous fibrous surface of the insulation giving good bond and high coverage rate.

USES:
IVS-80 is used as an adhesive for binding light weight insulation material to duct work / pipe sections in air conditioning systems, furnaces etc. It can also be used as an adhesive for porous and light weight materials such as cork, cardboard and paper.

ADVANTAGES:
IVS-80 sprays easily without misting giving high production rates and excellent coverage. The dry film is fire resistive meeting the requirements of fire protection rating agencies.

APPLICATION:
IVS-80 can be applied by brush or spray gun. Adhesive should be applied on the metal surface and thermal insulation simultaneously and should be left for some time for the evaporation of solvents before joining together.

SPECIFICATIONS:
IVS-80 meets ASTM C 916, Type 3 adhesive classification requirements. It has been tested to meet class 0 surface flammability requirements of UL 181, 25/50 requirements of NFPA standard 90A, and dry film hazard requirements of GSA.

COLOR	CLEAR (10), LIGHT ORANGE (22), LIGHT BLACK (24)	
WET WEIGHT	6.3 LBS / US GALLON	
AVERAGE NON-VOLATILE	33% BY WEIGHT	
TEMP. RANGE (coated surface)	-30°F to 160°F	
BONDING TIME (varies with thickness, climatic conditions)	1 - 10 minutes	
COVERAGE RATE (varies with thickness, surface, method of application)	400 - 500 SQ. FT. / US GALLON (spray application) 200 - 250 SQ. FT. / US GALLON (brush application)	
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255) *UL test report ID: R19250 / 99NK41642 test no. 1*	SURFACE TEST COVERAGE RATE FLAME SPREAD INDEX SMOKE DEVELOPED INDEX	: 1/4" ASBESTOS CEMENT BOARD : 300 SQ. FT. / US GALLON : 0 : 0

Rev. 3

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IVS - 130

DESCRIPTION:
IVS-130 is a water based fast tacking elastomeric adhesive, specifically designed for application by brush or using low pressure spray equipment. This adhesive bites into the porous surface of the insulation giving a good bond and high coverage rate.

USES:
IVS-130 can be used as an adhesive for bonding thermal insulation like fiberglass, rock wool, polystyrene, polyurethane, polyisocyanurate, foam rubber etc. with painted or un-painted metallic pipes and air ducts.

ADVANTAGES:
IVS-130 is non-flammable in the wet state and extremely fire resistive when dry. Because it is a water based adhesive, it does not react with rigid, polymer based insulation materials.

APPLICATION:
IVS-130 can be applied by brush, roller or low pressure spray equipment. Before applying IVS-130 all surfaces must be clean, dry and free from dust, grease, chemical curing powder etc. After application tools and hands should be cleaned with water.

SPECIFICATIONS:
IVS-130 meets ASTM C 916, Type 1 adhesive classification requirements. It has passed flammability testing and is classified as flame resistant and self extinguishing per US Code of Federal Regulations 14CFR23.853. It has been tested to meet class 1 surface flammability requirements of UL 181, 25/50 requirements of NFPA standard 90A, and dry film hazard requirements of GSA.

IVS-130 meets requirements for LEED credits per IEQ 4.2 Low Emitting Materials - Paints & Coatings.
VOC: 45 g/L less water and exempt solvents.

COLOR	OFF WHITE (36), OTHER COLORS ON REQUEST	
WET WEIGHT	9.6 LBS / US GALLON	
AVERAGE NON-VOLATILE	55% BY VOLUME	
TEMP. RANGE (coated surface)	-20°F to 200°F	
BONDING TIME (varies with thickness, climatic conditions)	Wet tack holds in 60 minutes. Complete bonding in 24 hours	
COVERAGE RATE (varies with thickness, surface, method of application)	50 - 150 SQ. FT. / US GALLON	
FLAME RESISTANCE (14CFR23.853) *Test report ID: HW-241525*	BURN RATE *Meets flame resistant and self extinguishing classification requirements*	: 0.8 inch/min
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255)	SURFACE TEST COVERAGE RATE FLAME SPREAD INDEX SMOKE DEVELOPED INDEX	: 1/4" ASBESTOS CEMENT BOARD : 100 SQ. FT. / US GALLON : 0 : 0

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IVS - 150

DESCRIPTION:
IVS-150 is a water based acrylic sealant. It is fire resistant and used in all heating, ventilation, and air conditioning ductwork systems.

USES:
IVS-150 can be applied by trowel, brush, or extrusion. It readily fills the joints of round and rectangular ductwork, grilles and mixing boxes.

ADVANTAGES:
IVS-150 duct sealant is safe to use because it is water based and thixotropic in nature. It adheres firmly to the joints in the duct system to form a strong and resilient seal. It is resistant to fire, oxidation, moisture, water and cracking.

APPLICATION:
All duct work surfaces must be clean, dry and free of oil and dirt prior to application. Do not dilute this product prior to application. When finished applying duct sealant, clean all tools and metal surfaces with hot water while the sealant is still wet. Allow 2 to 3 days drying time before applying air pressure to the duct work.

SPECIFICATIONS:
IVS-150 meets the requirements of NFPA standard 90-A. It also meets dry film hazard requirements of GSA.
IVS-150 meets requirements for LEED credits per IEQ 4.1 Low Emitting Materials - Architectural Sealants.
VOC: 28.04 g/L less water and exempt solvents (Ultra-Low classification)

COLOR	LIGHT GRAY (12), LIGHT RED (20)	
WET WEIGHT	10.0 LBS / US GALLON	
AVERAGE NON-VOLATILE	71% BY WEIGHT	
TEMP. RANGE (coated surface)	-20°F to 200°F	
DRYING TIME (varies with thickness, climatic conditions)	2 - 3 DAYS	
COVERAGE (varies with thickness)	30 - 120 FT. / 10TH GALLON CARTRIDGE	
SURFACE BURNING CHARACTERISTICS (ASTME-84, UL 723, NFPA 255) *UL test report ID: SV30067 / 4786574300 test no. 1*	SURFACE FLAME SPREAD INDEX SMOKE DEVELOPED INDEX	: 1/4" ASBESTOS CEMENT BOARD : 5 10

ALSO AVAILABLE IVS-220 (NEW PRODUCT) SILICON DUCT SEALANT, FOR SIMILAR USE, APPLICATION AND SPECIFICATIONS AS THAT OF ACRYLIC SEALANT.

IDEAL (VS) LTD
SUITE-151, 100 RYDERS LANE,
PEOPLES PLAZA, MILLTOWN
NEW JERSEY - 08850, U.S.A
TEL: 732-246-0337
FAX: 732-246-0523

IVS - 180

DESCRIPTION:
IVS-180 is a neoprene base, fire resistive, non-flammable contact adhesive for vapor barrier laps and insulations.

USES:
IVS-180 adhesive is specifically designed for adhering many types of insulations such as fiberglass, laminated scrims, aluminum foils and various foams, either flexible or rigid type.

ADVANTAGES:
IVS-180 is non-flammable in the wet and dry states, and meets the stringent requirements of military specification MIL-A-3316c, Class 2. It adheres to difficult substrates such as pre-sized glass cloths, and the laps of most types of vapor barrier jackets.

APPLICATION:
IVS-180 adhesive is standardly applied by brush. For spray applications our grade SPR is recommended.

Stir before use. Apply thin coat of adhesive on both cleaned surfaces, and allow adhesive to become touch dry. Bring the material very gently together with firm and even pressure.

SPECIFICATIONS:
IVS-180 meets the requirements of NFPA standard 90-A. It is non-combustible in accordance with NFPA national fire code 220(b). It also meets dry film hazard requirements of GSA.

COLOR	WET CONDITION : LIGHT BROWN (26) DRY CONDITION : LIGHT YELLOW (18)
WET WEIGHT	11.1 LBS / US GALLON
AVERAGE NON-VOLATILE	30% BY WEIGHT
TEMPERATURE RANGE	SERVICE : -30°F TO 275°F APPLICATION : 40°F TO 125°F
BONDING TIME	0 TO 5 MINUTES (1 SIDE APPLICATION OF ADHESIVE)
COVERAGE RATE (varies with thickness, surface, method of application)	1. FOR INSULATION ATTACHMENT: 150 TO 250 SQ. FT. PER US GALLON 2. FOR SEALING 2" WIDE LAPS: 600 TO 750 LINEAR FT. PER US GALLON
SURFACE BURNING CHARACTERISTICS (ASTME-84)	SURFACE : 1/4" ASBESTOS CEMENT BOARD FLAME SPREAD INDEX : 0 SMOKE DEVELOPED INDEX : 0

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IVS - 250

IAQ

DESCRIPTION:
IVS-250 is a water-based polyacrylate co-polymer emulsion coating designed primarily for fungicidal protection against growth of mold and bacteria on surfaces.

USES:
IVS-250 can be used as a decorative finish or a heavy duty fungicidal protective coating for interior / exterior applications on walls, masonry, gypsum boards, ceilings, sheet metal (coated or uncoated), metal cladding, pipes and air-conditioning duct systems.
IVS-250 is a versatile product; Contact factory for other possible applications.

ADVANTAGES:
IVS-250 has excellent anti-aging properties, with no loss of fungicidal protection. It is non-saponifiable and highly alkali resistant. It is also resistant to most chemicals, disinfectants, and aggressive air pollutants. Its elastomeric, flexible, and tough resistance to abrasion properties, make it ideal for indoor air quality applications, where exposure to high speed air streams may be required.

APPLICATION:
IVS-250 can be brush, roller or spray applied. All substrates should be dry, clean and free from materials that may interfere with free adhesion. Water base primer to be applied on most metal surfaces.
Important!
Any organic growth already on the surfaces to be removed thoroughly, treated with disinfectants and air dried. Metal surfaces to be free of rust corrosive pockets.

SPECIFICATIONS:
IVS-250 meets the requirements of NFPA standard 90-A. It is non-combustible in accordance with NFPA national fire code 220(b). It also meets dry film hazard requirements of GSA.

COLOR	WHITE (36), LIGHT BLACK (24)	
WET WEIGHT	11.3 LBS / US GALLON	
TEMP. RANGE (coated surface)	-20°F to 200°F	
DRYING TIME (varies with thickness, climatic conditions)	TO TOUCH: 4 - 5 HOURS THROUGH: 24 HOURS	
COVERAGE RATE (varies with thickness, surface, method of application)	80 - 150 SQ. FT. / US GALLON	
WATER VAPOR PERMEANCE (ASTME-96 Procedure B)	4.0 - 5.0 PERMS	
SURFACE BURNING CHARACTERISTICS (ASTME-84)	SURFACE TEST COVERAGE RATE FLAME SPREAD INDEX SMOKE DEVELOPED INDEX	: 1/4" ASBESTOS CEMENT BOARD : 100 SQ. FT. / US GALLON : 10 : 5