Adhesive & Protective Coating Solutions for HVAC
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### Product Application Index

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### Protective Coatings

- Fevicol AC Duct King Eco Fresh
- Fevicol AC Duct King Optima
- Fevicol AC Duct King
- Fevicol AC Prefab
- Fevicol 359K
- Fevicol 1K PUR FR

### Maintenance Products

- USPRO Construction Foam (*)
- Dr. Fixit Silicone Sealant GPS (*)

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### Adhesives

- Fevicol AC Duct King Eco fresh
- Fevicol AC Duct King Optima
- Fevicol AC Duct King
- Fevicol AC Prefab
- Fevicol 359K
- Fevicol 1K PUR FR

### Protective Coatings

- Fevicol AC Duct King Lag Coating AF 5000

### Maintenance Products

- USPRO Construction Foam (*)
- Dr. Fixit Silicone Sealant GPS (*)

*NOTE: All items are available on request.

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*Under deck Insulation*  |  *Over deck Insulation*  |  *Wall Panelling*
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*NOTE: All items are available on request.*
FEVICOL AC DUCT KING ECO FRESH

Technical Data Sheet

Description
FEVICOL AC DUCT KING ECO FRESH is a water based environment friendly synthetic resin adhesive, specially developed for adhesion of Nitrile Rubber, EPS, and XLPE for multiple applications in HVAC & R Insulation.

FEVICOL AC DUCT KING ECO FRESH is a Green product due to its very low VOC and thus makes it suitable for Green Certified projects.

Recommended Application Area
• Air conditioned Area for Ducting with Nitrile Rubber, EPS, Glass Wool, Rock Wool and Chilled Water Piping with Glass Wool, Rock Wool, EPS, Nitrile Rubber

Attributes
- Low VOC – Improves the IAQ to meet the compliance guidelines of Green Buildings
- Fire Resistant – Prevents spread of Flames and Smoke
- Extremely Mild Smell – Excellent for Low Ventilated Areas and Safe for Occupants / Applicators
- Low Application Cost – Higher coverage & hence low adhesive cost per area
- Strong Bonding – Very strong Bonding ensuring zero reworking costs
- Under deck / Over deck Insulation with Nitrile Rubber, EPS, Glass Wool, Rock Wool

Attributes
- Good Tack – Ensures the Nitrile Rubber bonds well with the Concrete Surface
- Low VOC – Improves the IAQ to meet the compliance guidelines of Green Buildings
- Fire Resistant – Prevents spread of Flames and Smoke
- Higher Coverage - Large Insulated Surface Areas can be bonded

Standards Conformance
• Surface Burning Characteristics - ASTM E 84
• IGBC/LEED VOC
• Class A/1 Product Exova warringtonfire

Type of Building / Application
• Hospitals & Hospitality
• Pharmaceutical & Beverage Industries
• Green Buildings
• Research Centre and Laboratory
• Recording Studios
• High Density Areas such as Malls, Airports, Auditoriums etc.

Unique Features and Benefits
• Fevicol AC Duct king Eco Fresh conforms to ASTM E 84 test for Low Flame Spread Index
• Fevicol AC Duct king Eco Fresh is certified as a Class A product by Exova Warringtonfire, a renowned testing agency
- UK Based testing agency
- Very LOW VOC (< 5 gms / litre ), excellent for Green Certified projects
- Ideal for improving the Indoor Air Quality ( IAQ ) as per the Green Building Standards
- Fire Resistant Water Based Formulation - Makes the Ducting / Chilled Water Piping safer against Fire hazards
- Excellent Spreadability - Lower application costs ensures a better Cost Benefit than rubber base adhesive.
- Mild Smell and Low Toxicity makes it Safe to use and Handle
- Excellent Tack - Longer Tack retention/open time

Recommended Method of Application
• Clean the substrates to be bonded so that they are free from Dust/Rust/Oil/Moisture
• Stir the adhesive well before use to have a homogenous material prior to application
• Apply the adhesive by spreader only in thin uniform layer on both the substrates.
• When glass wool/rock wool substrates are bonded, application of adhesive is done Only on Duct/Pipe/Concrete substrates
• Allow to develop tack (Best judged by change in color from whitish to colourless)
• For faster tack development & bonding, thin layer of adhesive is mandatory
• Once the tack is developed bonding of the substrates can be done even after 2 hrs unlike rubber based adhesive.
• Press it uniformly by hand pressure taking care that no air pockets are formed
• Cure for 24 hrs at ambient temperature

Precautions & Limitations
Keep the containers closed when not in use.

MSDS is available on request.

Typical Data
• Appearance : Off White Opake Paste
• Viscosity at 30° ±1°C : 40-80 poise
• Temp. Resistance : -20°C to 60°C
• VOC : < 5 gms / litre
• Coverage by Spreader : 7m² / kg / coat
(Under identical lab test conditions at ambient, on smooth nonporous substrate on single side application)

Shelf Life & Storage
12 months from the date of manufacture & when stored in a dry and cool place in the original unopened container ( Recommended Storage temperature: 20-30°C)

Packing
20 kg Plastic Drum
(Due to continuous product improvements, the data mentioned in the TDS is subject to change without prior intimation)

NOTE: The Product information & application details given by the company & its agents has been provided in good faith and meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of this product, quality of other materials used and on site workmanship are factors beyond our control, there are no express or implied guarantees, warranty as to the results obtained. There is no liability (whether resulting in whole or in part from negligence) for any consequential damage for uninsured results, arising from the use of our products.

Rev. No. 0.03 / Feb 2015
FEVICOL AC DUCT KING OPTIMA

Technical Data Sheet

Description
FEVICOL AC DUCT KING OPTIMA is a Synthetic Rubber based, Low VOC product specially developed for various applications in HVAC & R Industry.

FEVICOL AC DUCT KING OPTIMA is an excellent adhesive to bond various insulation materials such as Nitrile Rubber or Cross Linked Polyethylene Foam to Galvanized Iron or Aluminium duct surface.

Recommended Application Area
• AC Ducting / Chilled Water Piping/ Air Ventilation System - Fabrication of AC ducts - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to Duct surface
• Chilled Water piping - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to MS pipe lines

Attributes
• Low VOC – Improves the IAQ
• Mild Smell – Excellent for Low Ventilated Areas and Safe for Occupants / Applicators
• Low Application Cost – Keeps the costs under control
• Strong Bonding – Very strong Bonding ensuring zero reworking costs

Unique Features and Benefits
• Low VOC product ideal for low ventilated sites
• No added Benzene Formulation, ensures that the product is harmless to use - Safe to use & Handle
• Mild smell of the product does not cause any irritation to the occupants and applicators
• Excellent Spread and ease of application
• Fast Drying and Strong Bonding
• High coverage gives a lower coverage costs

Recommended Method of Application
• Clean the substrates to be bonded so that they are free from Dust/Rust/Oil/Moisture
• Stir the adhesive well before use to have a homogeneous material prior to application
• Apply Fevicol AC Duct King Optima on both the substrates uniformly by brush. First on Non porous substrate & then on to porous substrates.
• When Glass Wool/Rock Wool substrates are bonded application of adhesive is done Only on Duct/Pipe/Concrete substrates
• Once the adhesive becomes touch dry (when tack is developed) press both the substrates together ensuring uniform contact so that air pockets are not formed
• Cure for 24 hrs at ambient temperature

Precautions & Limitations
Keep the containers closed when not in use. The adhesive contains flammable solvents so precautions are required in storing. Care to be taken so that Adhesive or vapour from the adhesive will not come in contact with fire spots, naked flames or welding spots on shop floor/work site.

MSDS is available on request.

Typical Data
• Appearance : Very Light Brown Liquid with Yellowish ting
• Viscosity at 30° ± 1°C : 10-15 poise
• Temp. Resistance : -20°C to 85°C
• Specific Gravity@30° ± 1°C : 0.865 – 0.895
• VOC : 311.36 gms / litre
• Coverage by spreader : 4.5 m² / litre / coat
(Under identical lab test conditions at ambient, on smooth nonporous substrate on single side application)

Shelf Life & Storage
12 months from the date of manufacture & when stored in a dry and cool place in the original unopened container (Recommended Storage temperature: 20-30°C)

Packing
30 Litre Drum

(Due to continuous product improvements, the data mentioned in the TDS is subject to change without prior intimation)
FEVICOL AC DUCT KING

Technical Data Sheet

Description
FEVICOL AC DUCT KING is a Synthetic Rubber based adhesive specially developed to cater various insulation material applications in HVAC & R industry.

FEVICOL AC DUCT KING is recommended as an adhesive to bond Galvanized Iron or Aluminium duct surface to Nitrile Rubber or Crossed Linked Polyethylene Foam, to provide insulation to AC Ducts, Chilled Water Pipe lines, and Reaction Vessels in various industrial & residential projects.

The product can be conveniently applied in low ventilated sites at remote places, as the smell is very mild.

Recommended Application Area
- AC Ducting / Chilled Water Piping / Air Ventilation System - Fabrication of AC ducts - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to Duct surface
- Chilled Water piping - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to MS pipe lines
- Acoustic Insulation - To Bond Nitrile Rubber to Concrete walls, Vertical surfaces & Duct lining with Nitrile rubber
- Wall paneling for cold storages - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to smooth Concrete wall surface
- Under deck/Over deck Insulation - To bond Nitrile Rubber, Crossed linked Polyethylene, Glass Wool/Rock Wool to smooth Concrete wall surface (mechanical fasteners are recommended for under deck insulation)

Features
- No added Benzene Formulation
- Excellent tack
- High Spreadability & ease of application
- Strong Bond durability (aging resistance)
- Excellent adhesion to multiple substrates vis. Nitrile Rubber, Glass wool, XLPE, Galvanized Iron & Aluminium

Unique Features and Benefits
- Very Mild smell ensures the applicators and users will not be harmed
- No added Benzene ensures that the Health of the applicators and users is not harmed
- One adhesive for multiple application
- Industry first Adhesive product exclusively for Ducting and Chilled Water Piping

Recommended Method of Application
- Clean the substrates to be bonded so that they are free from Dust/Rust/Oil/Moisture
- Stir the adhesive well before use to have a homogeneous material prior to application
- Apply Fevicol AC Duct King on both the substrates uniformly by spreader / brush. First on Non porous substrate & then on to porous substrates.
- When Glass Wool/Rock Wool substrates are bonded application of adhesive is done on Duct/Pipe/Concrete substrates
- Once the adhesive becomes touch dry (when tack is developed) press both the substrates together ensuring uniform contact so that air pockets are not formed
- Cure for 24 hrs at ambient temperature

Precautions & Limitations
Keep the containers closed when not in use. The adhesive contains flammable solvents so precautions are required in storing. Care to be taken so that Adhesive or vapour from the adhesive will not come in contact with fire spots, naked flames or welding spots on shop floor/work site.

MSDS is available on request

Typical Data
- Appearance : Light Yellow Liquid
- Viscosity at 30° ±1°C : 8-12 poise
- Temp. Resistance : -20°C to 85°C
- Specific Gravity@30° ±1°C : 0.83 to 0.85
- Coverage by spreader : 6 m2 / litre / coat
  (Under identical lab test conditions at ambient, on smooth nonporous substrate on single side application)

Shelf Life & Storage
12 months from the date of manufacture & when stored in a dry and cool place in the original unopened container (Recommended Storage temperature: 20-30 0 C)

Packing
30  Litre Drum & 5 Litre metal container

(Due to continuous product improvements, the data mentioned in the TDS is subject to change without prior intimation)

NOTES: The Product information & application details given by the company & its agents has been provided in good faith and meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and on site workmanship are factors beyond our control, there are no express or implied guarantee/warranty as to the results obtained. The company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.
FEVICOL AC PREFAB

Technical Data Sheet

Description
FEVICOL AC PREFAB is a new generation Synthetic Rubber based adhesive, specially developed for bonding Pre Insulated Panels made of PIR, PU foam, Phenolic foam etc.

The Adhesive is fast drying adhesive & develops quick grab which is preferred for faster rate of fabrication. Fevicol AC Prefab can be easily applied at all ambient conditions by spreader, brush. It is an ideal adhesive for quick assembly of pre fabricated panels for on site construction of AC ducts.

Areas of Application
AC Ducting / Air Ventilation  Construction - To bond angular PIR, PU Foam or Phenolic Foam surface

Features & Benefits
- No added Benzene Formulation
- Faster Drying at ambient temperature
- Quick Grab development
- Excellent Spreadability
- Safe to use & Handle
- Excellent Water & aging Resistance
- Long shelf Life

Recommended Method of Application
- Clean the substrates to be bonded so that they are free from Dust/Rust/Oil/Moisture
- Apply the adhesive by spreader/Brush in thin uniform layer on both the surfaces of PIR, PU/ Phenolic Foam surfaces
- Allow to develop the tack. Allow an open time of 3-4 minutes. If the surface is porous apply a second coat & allow to dry for 3-4 minutes
- When tack is developed, press firmly & uniformly by hand, taking care that no air pockets are formed
- Allow to Cure the duct assembly for 24 hrs at ambient temperature with good contact pressure

Precautions & Limitations
Keep the containers closed when not in use. The adhesive contains flammable solvents so precautions are required in storing. Care to be taken so that Adhesive or vapours from the adhesive will not come in contact with fire spots, naked flames or Welding spots on shop floor/ work site.

MSDS is available on request.
FEVICOL SR 998

Technical Data Sheet

Description
FEVICOL SR 998 is a Superior Adhesive recommended to bond Galvanized Iron or Aluminium duct surface to Nitrile Rubber or Crossed Linked Polyethylene Foam to provide insulation to AC Ducts, Chilled Water Pipe Lines, and Reaction Vessels in various industrial & residential projects.

FEVICOL SR 998 is a Synthetic Rubber adhesive specially developed taking into consideration the application needs & performance requirements of insulation market segments.

Recommended Method of Application
• Clean the substrates to be bonded so that they are free from Dust / Rust / Oil etc
• Stir the adhesive well before use
• Apply Fevicol SR 998 on both the substrates uniformly by spreader / brush. First on Non porous substrate & then on to porous substrates.
• When Glass Wool/Rock Wool substrates are bonded, application of adhesive is done Only on Duct/Pipe/Concrete substrates
• Once the adhesive becomes touch dry(when tack is developed) press both the substrates together ensuring uniform contact so that air pockets are not formed
• Cure for 24 hrs at ambient temperature

Precautions & Limitations
Keep the containers closed when not in use. The adhesive contains flammable solvents so precautions are required in storing. Care to be taken so that Adhesive or vapour from the adhesive will not come in contact with fire spots, naked flames or welding spots on shop floor/work site.

MSDS is available on request.

Typical Data
• Appearance : Dark Brown Liquid
• Viscosity at 30° ±1°C : 20-25 poise
• Temp. Resistance : -30°C to 96°C
• Specific Gravity at 30° ± 1°C : 0.84 to 0.88
• Coverage by Spreader : 5.0 m² / litre / coat
(Under identical lab test conditions at ambient, on smooth nonporous substrate on single side application)

Shelf Life & Storage
12 months from the date of manufacturing, & when stored in a dry and cool place in the original unopened container (Recommended Storage temperature: 20-30°C)

Packing
25 Litre Drum & 1, 2, 5 Litre metal container

Benefits
• Mild Smell and hence can be used in Low Ventilated sites or remote places.
• Ideal for Round Surfaces
• Ideal for Refrigeration applications

Type of Building / Application
• Hospital and Hospitality
• Pharmaceuticals and Beverages
• Research Centre and Laboratory
• Recording Studios
• Cold Storages
• High Density Areas such as Malls, Airports, Auditoriums etc.

Unique Features
• No added Benzene Formulation
• Excellent Performance for Curved surfaces
• Excellent Spring back Resistance
• Superior performance at Sub Zero Temperatures
• Excellent Water and Heat Resistance
• Excellent Spreadability & ease of application
• Rapid and Strong strength development
• Excellent Bond durability (aging resistance)

FEVICOL SR 998

Technical Data Sheet
FEVICOL AC DUCT KING LAG COATING AF 5590

Technical Data Sheet

Description
FEVICOL AC DUCT KING LAG COATING AF 5590 is an Anti-Fungal, UV Resistant, Vapour Barrier coating water based, environment friendly, specially developed for protecting Insulated Duct, Chilled Water & VRV Pipes against Fire & Flame, Mechanical Damage, Harmful UV, Fungal growth & Condensation. (insulated with Nitrile Rubber, XLPE, Glass wool, Rock wool, PU) etc.

FEVICOL AC Duct King Lag Coating AF 5590 is non flammable Green product with low VOC, extremely suitable for Green Certified projects.

Recommended Application Area
- Air conditioned Area for Ducting, Chilled Water Piping
- Attributes / Reason for Recommendation
  - Fire Resistant – Prevents spread of Flames and Smoke
  - Anti Fungal – Prevents the fungal growth and betters the IAQ
  - Mechanical Protection – protects Insulation material from mechanical damage.
  - Increases energy efficiency & overall life of the overall system
- Non Air conditioned / Exposed Area Ducting, Chilled Water Piping, VRV Piping
- Attributes / Reason for recommendation
  - Strong Mechanical Protection – Imparts Excellent External strength to Ducts and Pipes
  - UV Resistant – Ensures the longevity of the Insulated Surface
  - Vapour Barrier – Prevents the Water Seepage and Heat loss thereof
  - Anti Fungal – Prevents the Fungal Growth in the Insulation Cracks

Standards Conformation
- UL classified for Surface Burning Characteristics ( UL 723 )
- Fungal Resistance - ASTM D 5590
- Flammability Resistance – ASTM D 4804
- Weathering Resistance - ASTM D 6695
- Wet Flammability Resistance - ASTM D 3278
- IGBC/LEED VOC

Unique Features and Benefits
- Reduction in Water vapour penetration on exposed insulated Nitrile Rubber surfaces thereby increasing the life of the system
- Fevicol AC Duct King Lag Coating AF 5590 further prevents the Fungal growth / Water seepage on the surface cracks
- Gives the protection against UV / Atmospheric Heat, which reduces the maintenance and re-working and re-installation costs
- Excellent protection against fire and smoke hazards
- Gives a High Surface strength to the Ducting / Chilled Water Piping
- Faster and Cost Effective site completion as compared to Sand Cement Plaster and Aluminum cladding
- Available in Multiple shades to suit the Legend and Facade requirement
- Protection against in bird perching
- Prevents the probable ingress of VOC present in low engineered adhesive through the Supply/Return Air because of the tight vapour barrier coating

Type of Building / Application
- Hospitals & Hospitality
- Pharmaceutical & Beverage Industries
- Green Buildings
- IT / ITES, Commercial & Public Building & Spaces
- VRV piping system based Air-conditioned buildings

Recommended Method of Application
- Clean the substrates to be bonded, so that they are free from Dust/Rust/Oil/Moisture
- Stir Fevicol AC Duct King Lag Coating AF 5590 well before use to have a homogeneous material prior to application
- Apply Fevicol AC Duct King Lag Coating AF 5590 on insulated surface uniformly by brush
- Immediately wrap Glass or Canvas cloth tightly with over lapping so that no gaps are left and no air pockets are formed
- Allow to dry and apply additional coating on wrapped cloth to achieve smooth, neat coated surface
- Allow to cure for minimum 24 hrs at ambient temperature

Precautions & Limitations
Keep the containers closed when not in use.

MSDS is available on request.

Typical Data
- Appearance : Milky White Thixotropic Opaque paste
- Viscosity at 30° ±1°C : 500 - 950 poise
- Wet Flammability (D 3278) : No flash to boiling
- Temp. Resistance : -18°C to 80°C
- Specific Gravity@30° ±1°C : 1.19 to 1.27
- % VOC (gms/Ltr) : < 1 gms / litre
- Coverage by Brush : 1.5-2m² / litre / coat (with recommended quality of Glass Cloth)

(Under identical lab test conditions at ambient, on smooth nonporous substrate on single side application)

Shelf Life & Storage
18 months from the date of manufacture & when stored in the original unopened container (Recommended Storage temperature: 20-30°C)

Packing
30 Litre Plastic Drum

(Due to continuous product improvements mentioned in this TDS is subject to change without prior intimation)
FEVICOL 1K PUR FR

Technical Data Sheet

Description
FEVICOL 1K PUR FR is single component ready to use moisture curing Adhesive, ideally developed for bonding prefabricated PIR or Phenolic Sheet, Nitrile rubber, XLPE, Expanded polystyrene, PUFF to Concrete/ Mat Galvanized Iron or MS for Chilled water Piping, Hot water Piping, Under deck, Over deck or Wall Paneling application with the help of screwing or clamping. It can be also be used for bonding metallic brackets at the edges to strengthen the duct assembly in prefabricated PIR or Phenolic duct construction. It is flame proof adhesive which does not catch fire while wet or cured. Fevicol 1K PUR FR cures by reacting with atmospheric moisture to exhibit tough elastic bond. The product has excellent weathering resistance in the cured state.

Fevicol 1K PUR FR is non flammable Green product with low VOC, extremely suitable for Green Certified projects.

Areas of Application
- Chilled Water Piping: To bond Nitrile, Expanded Polystyrene, XLPE to MS (Bonding can be done even in running condition of Chilled water Pipes, clamping required)
- Hot Water Piping: To bond Expanded Polystyrene to MS (Hot water upto 80°C)
- UnderDeck, OverDeck & Wall Panelings: To bond Nitrile Rubber, XLPE, Expanded Polystyrene, Pre fabricated PIR or Phenolic duct, PUF to Concrete / GI/MS panel (Screwing or Clamping is required)
- Prefabricated Ducts: To bond Metallic/PVC Brackets at the edges & corners of PIR or Phenolic ducts

Features & Benefits
- Fast setting
- Low VOC —> Green product
- Non flammable
- Good adhesion to metal & PIR or Phenolic Foams Room Temperature application.
- Ease of application
- No need of shutdown for Chilled water piping system

Recommended Method of Application
- Apply adhesive on Nitrile rubber, XLPE, Expanded polystyrene, PIR panel, PUFF by spreader uniformly, apply thick coat of adhesive if bonding surface is concrete.
- Wet the concrete /GI/MS surface by spraying a little amount of water.
- Then press the Nitrile rubber, XLPE, Expanded polystyrene, PIR panel on wall within 10 mins after adhesive application and screw or clamp bonded substrate for at least 15-30 mins.
- For Metallic/PVC Bracket to PIR duct bonding, apply adhesive on Metallic brackets, edges & corners of Prefabricated Duct & press firmly with good contact pressure.
- A strong bond is achieved after 2-3 hrs at ambient condition & optimum strength is achieved after 24 hrs.

Precautions & Limitations
MSDS is available on request.

Typical Data
- Appearance: Pale yellow viscous clear liquid
- Viscosity at 30°C: 40-80 poise
- VOC content: 10 gms/Lit max
- Open Time: 10 to 15 minutes @ 30°C. Higher temperature and higher percentage
- Final Bond Strength: After 24 hours
- Coverage: 7 M2/Kg

(Recommended storage temperature: 20-30°C)

Shelf Life & Storage
Shelf life is 9 months from the date of manufacturing & when stored in a dry and cool place in the original unopened container.

Packing
- 20kg Metal drum

(Due to continuous product improvements mentioned in this TDS is subject to change without prior intimation)

Rev. No. 0.03 / Feb 2015
ABBREVIATIONS AND GLOSSARY

Glossary

Adhesive: A Substance capable of holding materials together by surface attachment. This is a general term and includes physical forms like liquid, pastes, glues, cements etc. The adhesives are further classified as synthetic or natural

Adhesion: The state in which two surfaces are held together at an interface by forces, or interlocking action or both

Benzene: Benzene is carcinogenic solvent

Bond strength: The force per unit area or length necessary to rupture the bond. e.g. shear test, tensile test, peel test

Contact Adhesive: Contact adhesives are used in strong bonds with high shear-resistance. Natural rubber, polychloroprene (Neoprene) and water based acrylic adhesive are commonly used contact adhesives. Contact adhesives must be applied to both surfaces and allowed some time to dry before the two surfaces are pushed together. Once the surfaces are pushed together, the bond forms very quickly.

Cure: Change in properties of material by chemical reaction, which may be condensation, polymerization or vulcanization. Usually accomplished by the action of heat, catalyst, alone or in combination with or without pressure. In simple words, it can be described as time required for hardening or setting of adhesives

Density: Mass per unit Volume expressed in grams per cubic centimeter for solids & liquids

Exova Warringtonfire: Exova Warringtonfire is a world-leader in fire safety technology with capabilities including reaction to fire and fire resistance testing. Exova Warringtonfire offers independent fire testing, fire engineering and fire certification services that are a globally-respected mark of quality assurance. For over 40 years, Exova Warringtonfire has been helping customers achieve regulatory compliance, market entry or competitive advantage

Flammable: A volatile liquid or gas, which has flash point of 30°F or lower

Flash point: The temperature at which a liquid or volatile solid gives off Vapours sufficient to form an ignitable mixture with air near substance of liquid or within the test vessel

Flame Spread Index: Is a ranking derived by laboratory standard test methodology of a material’s propensity to burn rapidly and spread flames

Good Spread ability: Ability to cover more area in less quantity.

Green Building: A green building is one which uses less water, optimises energy efficiency, conserves natural resources, generates less waste and provides healthier spaces for occupants, as compared to a conventional building.

Heat: A form of energy associated with and proportional to molecular motion. It can be transferred from one body to another by Radiation, conduction or convection

Heat Transfer: Transmission of Thermal Energy from one location to another by means of temperature in gradient existing between locations

Homogeneous: Material consisting of uniformity/similarity in elements

Insulation (Thermal): Thermal insulation is the reduction of heat transfer (the transfer of thermal Energy between objects of differing temperature) between objects in Thermal contractor in the range of radiative influence. Thermal insulation can be achieved with specially engineered methods or processes as well as with suitable object shapes & materials

IAQ: Indoor Air Quality

Open time (Tack development time): The time required for solvent evaporation & tack development highly dependent on humidity & climatic conditions

Plastics: Natural or artificially prepared organic polymers of low extensibility as compared with rubber, which can be moulded, extruded cut and worked in to variety of rigid or Non rigid objects. The first commercial plastic was celluloid

Pressure Sensitive Adhesive: Pressure-sensitive adhesives (PSA) form a bond by the application of light pressure to marry the adhesive with the adherent. The bond forms because the adhesive is soft enough to flow (i.e. "wet") to the adherent. The bond has strength because the adhesive is hard enough to resist flow when stress is applied to the bond.

Sealant: A material used to fill a joint for water proofing, weathering or arresting leakages. Generally in putty and thick paste forms

Smoke developed index: Smoke developed index is a measure of the concentration of smoke a material emits as it burns

Solvent: A medium in which a substance is dissolved.

Specific Gravity: Specific gravity is the ratio of the density of a substance to the density (mass of the same unit volume) of a reference substance. Apparent specific gravity is the ratio of the weight of a volume of the substance to the weight of an equal volume of the reference substance.

Spreader: A thin metal plate which use to coat or spread adhesive on substrate

Tack: The degree of surface stickiness of the adhesive; influences the strength of the bond between wetted surfaces.

Viscosity: Resistance Offered by liquid to flow. Highly temp dependent, Higher the temp - lower the viscosity and vice versa

Abbreviations

ASTM: American Society for Testing and Materials

EPS: Expanded Polystyrene

GI: Galvanised Iron

IAQ: Indoor Air Quality

IEO: Indoor Environmental Quality

MS: Mild Steel

MSDS: Material Safety Data Sheet

PIR: Poly Iso Cyanurate

PU: Poly Urethane

TDS: Technical Data Sheet

VOC: Volatile organic Compound

XLPE: Crosslinked Polyethylene

UL : Underwriters Laboratory

Standards

ASTM D 3278: Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus


ASTM D 5590: Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Fungal Defacement

ASTM D 6695: Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings


UL 723: Standard test method for surface burning characteristics of building materials

NOTE: The Product information & application details given by the company & its agents has been provided in good faith and meant to serve only as a general guideline during usage. Users are advised to carry out tests & trail trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and on-site workmanship are factors beyond our control, there are no express or implied guarantee/warranty as to the results obtained. The user is advised to check for any consequential damage for unsatisfactory results, arising from the use of our products.