



**LARGE USERS
BUSINESS**



Technical Data Sheets — of — **HVAC Product Range**

Adhesives | Coatings | Sealants | GAP Fillers

Product Application Index

Substrate / Product	HVAC Ducting									
	Fevicol AC Duct King Eco Fresh	Fevicol AC Duct King	Fevicol AC Duct King Optima	Fevicol SR 505 HVAC	Fevicol SR 998 HVAC	Fevicol Heatx	Fevicol AC Prefab	Fevicol 1K PUR	Fevicol AC Duct King Lag Coating AF 5590	Fevicol Weather Protekt Coat
Nitrile Rubber	✓	✓	✓	✓	✓	✓			✓	✓
XLPE		✓		✓	✓	✓			✓	✓
Glass Wool	✓	✓		✓	✓	✓		✓	✓	✓
Rock Wool	✓	✓		✓	✓	✓		✓	✓	✓
EPS/XPS								✓	✓	✓
PUF		✓		✓	✓	✓		✓	✓	✓
EPDM		✓	✓	✓	✓	✓			✓	✓
PIR							✓		✓	✓
Phenolic Foam							✓		✓	✓

Substrate / Product	Chilled Water Piping									
	Fevicol AC Duct King Eco Fresh	Fevicol AC Duct King	Fevicol AC Duct King Optima	Fevicol SR 505 HVAC	Fevicol SR 998 HVAC	Fevicol Heatx	Fevicol AC Prefab	Fevicol 1K PUR	Fevicol AC Duct King Lag Coating AF 5590	Fevicol Weather Protekt Coat
Nitrile Rubber		✓	✓	✓	✓	✓			✓	✓
XLPE		✓		✓	✓	✓			✓	✓
Glass Wool	✓	✓		✓	✓	✓		✓	✓	✓
Rock Wool	✓	✓		✓	✓	✓		✓	✓	✓
EPS/XPS								✓	✓	✓
PUF		✓		✓	✓	✓		✓	✓	✓
EPDM		✓	✓	✓	✓	✓			✓	✓
PIR							✓		✓	✓
Phenolic Foam							✓		✓	✓

Note

- Substrates given for Application are indicative and should be confirmed from the respective supplier before installing.
- Please refer the respective TDS for detailed Adhesive / Coating application.



Substrate / Product	Under Deck Insulation									
	Fevicol AC Duct King Eco Fresh	Fevicol AC Duct King	Fevicol AC Duct King Optima	Fevicol SR 505 HVAC	Fevicol SR 998 HVAC	Fevicol Heatx	Fevicol AC Prefab	Fevicol 1K PUR	Fevicol AC Duct King Lag Coating AF 5590	Fevicol Weather Protekt Coat
Nitrile Rubber	✓	✓	✓	✓	✓	✓		✓	✓	✓
XLPE		✓		✓	✓	✓			✓	✓
Glass Wool	✓	✓		✓	✓	✓		✓	✓	✓
Rock Wool	✓	✓		✓	✓	✓		✓	✓	✓
EPS/XPS								✓	✓	✓
PUF		✓		✓	✓	✓		✓	✓	✓
EPDM		✓	✓	✓	✓	✓		✓	✓	✓
PIR					✓	✓	✓	✓	✓	✓
Phenolic Foam					✓	✓	✓	✓	✓	✓

Substrate / Product	Wall Panelling / Acoustic Lining									
	Fevicol AC Duct King Eco Fresh	Fevicol AC Duct King	Fevicol AC Duct King Optima	Fevicol SR 505 HVAC	Fevicol SR 998 HVAC	Fevicol Heatx	Fevicol AC Prefab	Fevicol 1K PUR	Fevicol AC Duct King Lag Coating AF 5590	Fevicol Weather Protekt Coat
Nitrile Rubber		✓	✓	✓	✓	✓		✓	N.A.	N.A.
XLPE		✓		✓	✓	✓			N.A.	N.A.
Glass Wool	✓	✓		✓	✓	✓		✓	N.A.	N.A.
Rock Wool	✓	✓		✓	✓	✓		✓	N.A.	N.A.
EPS/XPS								✓	N.A.	N.A.
PUF		✓		✓	✓	✓		✓	N.A.	N.A.
EPDM		✓	✓	✓	✓	✓		✓	N.A.	N.A.
PIR							✓	✓	N.A.	N.A.
Phenolic Foam							✓	✓	N.A.	N.A.

* For under deck and Wall Paneling / Acoustic Lining. Fastners are recommended with adhesive.





FEVICOL AC DUCT KING ECO FRESH

Water based non-flammable ASTM E 84 conforming adhesive

Description

FEVICOL AC DUCT KING ECO FRESH is a water based environment friendly, synthetic resin adhesive, specially developed for HVAC ducting, chilled water piping preformed and underdeck insulation applications in HVAC & R Industry.

It is extremely ideal for Green Certified & Safety Priority projects because it has low VOC, Flame Retardancy and does not emit smoke.

Recommended Application Area

- HVAC ducting insulated with Nitrile Rubber, Glass Wool, Rock Wool and Chilled Water Piping preformed Glass Wool and Rock Wool Sections.
- Under deck Insulation with Nitrile Rubber, Glass Wool, Rock Wool (to be applied along with mechanical fasteners).
- Wall panelling / Acoustic with Glass Wool and Rock Wool.

Unique Features and Benefits

- Conforms to ASTM E 84 test for Low Flame Spread and Low smoke develop Index.
- Certified as a Class A product by Exova Warringtonfire.
- Fire Retardant water based formulation.
- Ultra Low VOC (< 20 gms / Kg).
- Higher coverage & hence low adhesive cost per unit area ensures better cost benefit compared to rubber based.
- Mild smell and low toxicity - Excellent for low ventilated areas and safe for occupants / applicators.
- Very strong bonding ensuring zero reworking costs.
- Excellent tack - Longer tack retention/open time.

Standards Conformation

- Surface Burning Characteristics - ASTM E 84.
- Class A/1 Product Exova Warringtonfire.
- IGBC/LEED VOC.

Type of Building / Application

- Hospitals & Hospitality.
- Pharmaceutical & Beverage industries.
- Green buildings.
- Research centre and Laboratory.
- High Density Areas such as Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Ensure the substrates to be bonded are free from dust/rust/oil/moisture.
- Stir the adhesive well before use to have a homogeneous material prior to application.
- Apply the adhesive by **spreader only** in thin uniform layer on both the substrates. Do not use brush.
- For faster tack development & bonding, thin layer of adhesive is mandatory.
- Allow to develop tack (best judged by change in colour from greenish to colourless).
- 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.
- When Glass Wool/Rock Wool substrates are bonded, adhesive should be applied only on Duct/Pipe/ Concrete substrates and not on insulation.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Do not use the adhesive on undulated surface.
- Do not dilute. Dilution distorts the product performance.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- **Appearance** : Light green opaque paste
- **Viscosity at 30° ±1°C** : 40-80 poise
- **Temperature resistance** : -20°C to 60°C
- **VOC** : < 20 gms/kg
- **Coverage by spreader** : 9m² / kg (bonded area)

(Under identical lab test conditions at ambient, on smooth nonporous substrate).

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.
- California Department of Public Health Compliant CDPH version 1.2 : 01350.
- ASTM D 5116-10.
- ISO 16000-3:2011.
- ISO 16000-3:2011.
- ISO 16000-3:2011.

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 °C to 30°C).

Packing

20 kg plastic pail.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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.

Rev. No. 0.01 / August 2021



FEVICOL AC DUCT KING

Low coverage cost across multiple applications.

Description

FEVICOL AC DUCT KING is a synthetic rubber based adhesive specially developed to bond various insulation materials with HVAC ducts, Chilled Water Pipe lines and, Underdeck applications in various industrial & residential projects. The product can be conveniently applied in low ventilated sites, as the smell is very mild.

Recommended Application Area

- HVAC Ducting - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to Duct surface.
- Chilled Water piping - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to MS pipe lines.
- Acoustic Insulation - To Bond Nitrile Rubber to Concrete walls, Vertical surfaces & Duct lining.
- Wall panelling - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool to smooth Concrete wall surface.
- Under deck Insulation - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to smooth Concrete wall surface (Mechanical fasteners are recommended for under deck insulation).

Unique Features and Benefits

- Industry first adhesive exclusively for ducting & chilled water piping.
- Higher coverage & hence low coverage cost.
- Mild smell ensures no harm to the applicators.
- Strong bond durability (Aging resistance) with all types of insulation material.
- Free From Carcinogenic compounds.
- High spread ability & ease of application.

Type of Building / Application

- Hospital and Hospitality.
- Pharmaceuticals and Beverages.
- Research Centre and Laboratory.
- Recording studios.
- Cold storages.
- High density areas such Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Ensure the substrates to be bonded 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. Use of spreader for flat non-porous insulation surface can help to improve coverage.
- When Glass Wool/Rock Wool substrates are bonded, adhesive should be applied only on Duct/Pipe/ Concrete substrates and not on insulation.
- 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.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Contains flammable solvents, so precautions required in storing.
- Adhesive or vapour from the adhesive should not come in contact with fire spots, naked flames or welding area on shop floor/work site.
- Do not use the adhesive on undulated surface.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request

Typical Data

- **Appearance** : Light Yellow Liquid
- **Viscosity at 30° ±1°C** : 8-12 poise
- **Temperature Resistance** : -20°C to 85°C
- **VOC** : < 700 gms/Lit
- **Coverage by spreader** : 8 m² / litre (for bonded area)

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

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

Shelf Life & Storage

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

Packing

30 litre drum & 5 liter Tin.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL AC DUCT KING OPTIMA

Low VOC synthetic rubber based adhesive to bond nitrile rubber in HVAC applications

Description

FEVICOL AC DUCT KING OPTIMA is a synthetic rubber based, low VOC product specially developed for various applications in HVAC industry. It is an excellent adhesive to bond Nitrile Rubber for insulating HVAC Ducts, Chilled Water Pipe lines and Underdeck for various industrial & residential projects.

Recommended Application Area

- HVAC Ducting - To bond Nitrile Rubber, EPDM (20 mm thickness max) to duct surface.
- Chilled Water piping - To bond Nitrile Rubber, EPDM (15 mm thickness max) to MS pipe lines.
- Acoustic insulation - To bond Nitrile Rubber, EPDM (20 mm thickness max) to concrete walls, vertical surfaces & duct lining.
- Under deck insulation - To bond Nitrile Rubber, EPDM (20 mm thickness max) to smooth concrete wall surface (mechanical fasteners are recommended for under deck insulation).

Unique Features and Benefits

- Low VOC product improves the IAQ.
- Mild smell does not cause any irritation to the occupants / applicators.
- Suitable for low ventilated areas.
- Very strong bonding ensuring zero reworking costs.
- Free from Carcinogenic compounds.

Type of Building / Application

- All types of Green Buildings.
- Hospitals and Hospitality.
- Pharmaceuticals and Beverages.
- Research Centre and Laboratory.
- Recording studios.
- Cold storages.
- High density areas such Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Ensure the substrates to be bonded are free from dust/rust/oil/moisture etc.
- 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 spreader / brush. Use of spreader for flat non-porous insulation surface can help to improve coverage.
- 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.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Contains flammable solvents, so precautions required in storing.
- Adhesive or vapour from the adhesive should not come in contact with fire spots, naked flames or welding area on shop floor/work site.
- Do not use the adhesive on undulated surface.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended .

MSDS is available on request.

Typical Data

- **Appearance** : Very Light Yellow Liquid
- **Viscosity at 30° ±1°C** : 10-15 poise
- **Temperature Resistance** : -20°C to 85°C
- **VOC** : < 400 gms/Lit
- **Coverage by spreader** : 7 m² / litre (For bonded area)

(Under identical lab test conditions at ambient, on smooth nonporous substrate).

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

Shelf Life & Storage

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

Packing

30 litre drum.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL SR 505 HVAC

Mild smell synthetic rubber adhesive for insulation bonding application.

Description

FEVICOL SR 505 HVAC is a synthetic rubber based adhesive developed to bond various insulation materials with HVAC Ducts, Chilled Water Pipe lines, and Underdeck in various industrial & residential projects. The product can be conveniently applied in low ventilated sites, as the smell is very mild.

Recommended Application Area

- HVAC Ducting - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to Duct surface.
- Chilled Water piping - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to MS pipe lines.
- Acoustic Insulation - To Bond Nitrile Rubber to Concrete walls, Vertical surfaces & Duct lining.
- Wall panelling - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool to smooth Concrete wall surface.
- Under deck Insulation - To bond Nitrile Rubber/EPDM/XLPE(20 mm thickness max), Glass Wool/Rock Wool, PUF to smooth Concrete wall surface (Mechanical fasteners are recommended for under deck insulation).

Unique Features and Benefits

- Excellent adhesion to multiple substrates.
- Very Mild smell ensures the applicators and users will not be harmed.
- Strong Bond durability (Aging resistance).
- Free From Carcinogenic compounds.

Type of Building / Application

- Hospitals and Hospitality.
- Pharmaceuticals and Beverages.
- Research Centre and Laboratory.
- Recording studios.
- Cold storages.
- High density areas such Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Ensure the substrates to be bonded are free from dust/rust/oil/moisture.
- Stir the adhesive well before use to have a homogeneous material prior to application.
- Apply Fevicol SR 505 HVAC on both the substrates uniformly by spreader / brush. Use of spreader for flat non-porous insulation surface can help to improve coverage.
- When Glass Wool/Rock Wool substrates are bonded, adhesive should be applied only on Duct/Pipe/ Concrete substrates and not on insulation.
- 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.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Contains flammable solvents, so precautions required in storing.
- Adhesive or vapour from the adhesive should not come in contact with fire spots, naked flames or welding area on shop floor/work site.
- Do not use the adhesive on undulated surface.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended .

MSDS is available on request.

Typical Data

- **Appearance** : Light yellow liquid
- **Viscosity at 30° ±1°C** : 12-16 poise
- **Temperature Resistance** : -20°C to 80°C
- **VOC** : < 700 gms/Lit
- **Coverage by spreader** : 6-6.5 m² / litre (for bonded area)

(Under identical lab test conditions at ambient, on smooth nonporous substrate).

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

Shelf Life & Storage

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

Packing

30 litre drum & 5 liter Tin.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL SR 998 HVAC

Superior bond with multiple substrates

Description

FEVICOL SR 998 HVAC is a high strength synthetic rubber adhesive specially developed to bond Nitrile Rubber or XLPE to Galvanized Iron, Aluminium duct surface, Mild Steel for insulating HVAC ducts, Chilled Water Pipe Lines and Underdeck in various industrial & residential projects.

Recommended Application Area

- HVAC Ducting - To bond Nitrile Rubber, EPDM, XLPE, Glass Wool /Rock Wool, PUF to Duct surface.
- Chilled Water piping - To bond Nitrile Rubber, EPDM, XLPE and Glass Wool/Rock Wool, PUF to MS pipe lines.
- Acoustic Insulation - To Bond Nitrile Rubber to Concrete walls, Wood / Metal surfaces & Duct lining.
- Wall panelling for cold storages - To bond Nitrile Rubber, EPDM, XLPE, Glass Wool/Rock Wool to smooth Concrete wall surface/ GI / MS.
- Under deck Insulation - To bond Nitrile Rubber, EPDM, XLPE, Glass Wool/Rock Wool, PUF, PIR/Phenolic Foam to smooth Concrete wall surface (Mechanical fasteners are recommended for under deck insulation).
- Brine Chilled Water Piping - To bond Nitrile Rubber, XLPE to MS pipe lines. Service temperature of water up to -20°C.
- Thermal Storage System Tanks - To bond Nitrile Rubber, EPDM, XLPE to MS Tanks.

Unique Features & Benefits

- Outstanding performance for curved surfaces.
- Excellent spring back, water and heat resistance.
- Superior performance at sub-zero temperatures.
- Ideal for refrigeration applications.
- Mild smell and hence can be used in low ventilated sites or remote places.
- Rapid and Strong strength development.
- Excellent bond durability (aging resistance).
- Free from Carcinogenic compounds.

Type of Building / Application

- Hospital and Hospitality.
- Pharmaceuticals and Beverages.
- Research Centre and Laboratory.
- Recording studios.
- Cold storages.
- High density areas such Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Ensure the substrates to be bonded are free from dust/rust/oil/moisture etc.
- Stir the adhesive well before use to have homogeneous material prior to application.
- Apply Fevicol SR 998 HVAC on both the substrates uniformly by spreader / brush. Use of spreader for flat non-porous insulation surface can help to improve coverage.
- When Glass Wool/Rock Wool substrates are bonded, adhesive should be applied only on Duct/Pipe/ Concrete substrates and not on insulation.
- 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.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Contains flammable solvents, so precautions required in storing.
- Adhesive or vapour from the adhesive should not come in contact with fire spots, naked flames or welding area on shop floor/work site.
- Do not use the adhesive on undulated surface.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- **Appearance** : Dark brown liquid
- **Viscosity at 30° ±1°C** : 20-25 poise
- **Temperature Resistance** : -20°C to 100°C
- **VOC** : < 700 gms/Lit
- **Coverage by Spreader** : 5.0 m² / litre (For bonded area)

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

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

Shelf Life & Storage

18 months from the date of manufacturing & when stored in a dry and cool place in the original unopened container (Recommended Storage temperature: 20 °C to 30°C).

Packing

30 litre drum & 5 liter Tin.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL AC PREFAB

Quick and High Grab Adhesive specially developed for Angular Bonding.

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 & develops quick grab which is preferred for faster on site fabrication of HVAC ducts. It can be easily applied by spreader/brush.

Recommended Areas of Application

HVAC Ducting - To bond angular PIR, PU Foam or Phenolic Foam surfaces.

Unique Features & Benefits

- Strong angular bonding with PIR / PU / Phenolic Foam application.
- Faster drying at ambient temperature.
- Quick grab development ensures higher productivity.
- Excellent spreadability.
- Free from Carcinogenic compounds .

Recommended Method of Application

- Ensure the substrates to be bonded are free from dust/rust/oil/moisture etc.
- Stir the adhesive well before use to have homogenous material prior to application.
- Apply the adhesive by brush in thin uniform layer on both the surfaces of PIR, PU/ Phenolic Foam surfaces.
- Allow to develop the tack with an open time of 3-4 minutes.
- If the surface is porous, apply a second coat & allow to dry second coat 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.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces (if required, extra coats can be done depending on substrate porosity).

Precautions & Limitations

- Keep the container closed when not in use. Stir the adhesive well before use.
- Contains flammable solvents, so precautions required in storing.
- Adhesive or vapour from the adhesive should not come in contact with fire spots, naked flames or welding. area on shop floor/work site.
- Do not use the adhesive on undulated surface.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- **Appearance** : Light brown medium viscous liquid
- **Viscosity at 30° ± 1°C** : 17-22 poise
- **Temperature Resistance** : -20°C to 85°C
- **VOC** : < 700 gms/Lit
- **Coverage by Spreader** : 4.5 m² / Litre (for bonded area)

(Under identical lab test conditions at ambient, on smooth nonporous substrate).

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

Shelf Life & Storage

18 months from the date of manufacture & when stored in a dry and cool place in the original unopened Container (Recommended Storage temperature: 20 °C to 30°C).

Packing

30 litre drum.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL 1K PUR

No shut down, single component moisture curing Adhesive

Description

FEVICOL 1K PUR is a single component, moisture curing adhesive. It cures by reacting with atmospheric moisture to exhibit tough elastic bond. It is ideally developed to bond pre-fabricated PIR or Phenolic Sheet, Nitrile rubber, Expanded polystyrene, PUF to Concrete/ Mat Galvanized Iron or MS for Chilled water piping, Hot water piping, Under deck or Wall Panelling application with the help of screwing or clamping.

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

Recommended Areas of Application

- HVAC Ducting - To bond Expanded Polystyrene, PUF to duct surface (Mechanical fastening required).
- Chilled Water Piping- To bond Expanded Polystyrene, PUF, Glass Wool/Rock Wool to MS (Bonding can be done even in running condition of Chilled water Pipes. Mechanical Fastening is required).
- Hot Water Piping- To bond Expanded Polystyrene to MS Pipe. (Hot water up to 80 °C Temperature resistance. Mechanical Fastening is required)
- Under Deck & Wall Panelling– To bond Nitrile Rubber, EPDM, Expanded PolyStyrene, Glass Wool/Rock Wool, pe-fabricated PIR or Phenolic duct, PUF to Concrete / GI/MS panel (Mechanical Fastening is required).
- Overdeck Panelling – To bond Extruded Poly Styrene and PUF to Concrete (Mechanical Fastening is required).
- Prefabricated Ducts - To Bond Metallic/PVC Brackets at the edges & corners of PIR or Phenolic ducts.

Unique Features & Benefits

- Single component moisture curing adhesive ideal for insulation changover in running conditions.
- No need for plant shutdown for insulation changeover.
- Can be applied even on Moist surfaces.
- Ease of application and cost effective as compared to Bitumen.
- Excellent gap filling property.
- Low VOC / Green Product.
- Good adhesion to multiple substrates.

Type of Building / Application

- Hospital and Hospitality.
- Pharmaceuticals and Beverages.
- Research Centre and Laboratory.
- Cold storages.
- High density areas such Malls, Airports, Auditoriums etc.

Recommended Method of Application

- Apply adhesive on Insulation Substrate only by spreader / brush uniformly, apply thicker coat of adhesive if bonding with concrete.
- Then Wet the Concrete / GI / MS surface by spraying little amount of water.
- Remove the excess water condensed if any, on the rework area surface before bonding.
- Then Press the Insulation Substrate on Wall / Chilled Water Pipe / Duct within 5 mins after adhesive application (Once appearance of adhesive changes from honey coloured liquid to pale yellow foam) and hold the bonded area by self-adhesive tape/Wire/screw/ Clamp for at least 2 hours.
- 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.
- When Glass Wool/Rock Wool substrates are bonded, adhesive should be applied only on Duct/Pipe/ Concrete substrates and not on insulation.

Precautions & Limitations

- The container to be closed tightly after use as product is moisture curable.
- The entire content in the drum/bottle may become solid if exposed to atmospheric air for longer period of time.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- **Appearance** : Pale yellow viscous clear liquid
- **Viscosity at 30°C** : 40-80 Poise
- **Temptature resistance** : 0 °C. to 150 °C
- **Open Time** : 5 to 15 minutes
- **VOC** : < 20 gms/Lit
- **Coverage** : 5-6 m² /Kg

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

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- Meets the IGBC Heavy Metals Standards.

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 (Recommended Storage temperature: 20 °C to 30°C).

Packing

500 ml plastic bottle.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL AC DUCT KING LAG COATING AF 5590

UL classified antifungal vapour barrier & fire retardant coating ideal for protecting insulation against mechanical damage.

Description

FEVICOL AC DUCT KING LAG COATING AF 5590 is an UL classified, antifungal, vapour barrier & fire retardant coating which protects insulation against fire & flame, mechanical damage, fungal growth & condensation. It is a Green and Safe Fire retardant coating with low VOC.

Recommended Area of Application

- Coating is strongly recommended for all Insulated HVAC Ducts, Chilled Water piping and VRV / VRF piping in internal areas with low relative humidity.

Reasons for Recommendation

- Fire retardant – Prevents spread of flames and smoke generation.
- Mechanical Protection – Protects Insulation material from mechanical damage.
- Anti-Fungal – Prevents fungal growth and helps to maintain IAQ.
- Vapour Barrier – Prevents surface condensation and Heat loss.
- Reduced OPEX – Reduces energy losses, maintenance & reworking cost and increases life of the system.
- Faster Completion – Reduces labour time and help in faster completion since brush applied.

Unique Features and Benefits

- Prevents spread of flame & smoke.
- Superior Protection against mechanical & abrasion damage.
- Better Performance compared to laminated protective covering.
- Prevents formation of surface cracks on Insulated Surfaces due to aging.
- Prevents spread of flame & smoke.
- Applications for internal HVAC Insulated Ducts, VRV/VRF Pipes and Chilled Water Pipes.
- Prevents Fungal growth.
- Prevents the probable ingress of VOC present in low engineered adhesive through the Supply/Return Air because of the tight vapour barrier coating.

Standards Conformation

- UL classified for Surface Burning Characteristics (UL 723).
- Flammability and Smoke Developed Index – ASTM E84.
- NBC 2016 - 7.2.7.2.
- Fungal Resistance - ASTM D 5590.
- Flammability Resistance - ASTM D 4804.
- Wet Flammability Resistance - ASTM D 3278.
- Water Vapour Permeability – ASTM E 96.
- IGBC/LEED VOC.

Type of Building / Application

- Health Care & Hospitality.
- Pharmaceutical & Process Industries.
- Food & Beverage Industries.
- Green Buildings.
- IT / ITES, Commercial & Public Building & Spaces.
- VRV / VRF piping system based Air-conditioned buildings.

Recommended Method of Application

- Clean the substrates to be coated, 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.
- Immediately apply additional coating on wrapped cloth to achieve smooth, neat coated surface.
- Allow to cure for minimum 24 hrs at ambient temperature.

Precautions & Limitations

- Do not dilute. Dilution distorts the product performance.
- Keep the containers closed when not in use.
- Please pre-consult before application in high humidity conditions.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- Appearance** : Milky White Thixotropic Opaque paste
- Viscosity at 30° ±1°C** : 500 - 950 poise
- Temperature Resistance** : -18°C to 80°C
- VOC** : < 1 gms/kg
- Coverage by Brush** : 1.5-2 m² / kg / coat (with recommended quality of Glass Cloth)

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

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.
- California Department of Public Health Compliant CDPH version 1.2 : 01350.
- ASTM D 5116-10
- ISO 16000-3:2011
- ISO 16000-3:2011
- ISO 16000-3:2011

Shelf Life & Storage

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

Packing

25 kg and 5 kg plastic pail.

Fevicol AC Duct King Lag Coating AF 5590		R-27225
		
Adhesives		
Surface Burning Characteristics		
Applied to 1/4 inch (6.4 mm) Inorganic Reinforced Cement Board		
Flame Spread	05	
Smoke Developed	10	
Number of coats	01	
Tested as applied at a coverage of 40 sq ft per gal		
Flash point of liquid adhesive (closed cup) – not flash to boiling		
4PG3		



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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.

Rev. No. 0.01 / August 2021



FEVICOL WEATHER PROTEKT COAT

Monolithic joint free coat for protecting insulation in exposed conditions

Description

FEVICOL WEATHER PROTEKT COAT is a specially developed water based, fire retardant coating which provides a tough protection against mechanical damage, surface erosion due to chemical attack & weathering (not only UV protection but weathering protection).

Fevicol Weather Protekt offers excellent durable sealing against water ingress and protects surface against Biological delay. It can be used in any type of end application in Hot and Cold Insulation.

Recommended Area of Application

- Strongly recommended for all HVAC Ducts, Chilled Water piping and VRV / VRF piping insulated with any type of Insulation in internal areas and external areas including high relative humidity environment.
- Light industrial usage on insulated surfaces.

Reasons for Recommendation

- Weathering Resistance- Longer life of Insulation even in exposed condition.
- Fire Retardant – Prevents spread of Flames and Smoke generation.
- Excellent Mechanical Protection – Protects insulation material against mechanical damage.
- Water Vapour Barrier – Prevents water ingress below the insulation and preventing corrosion under Insulation.
- Excellent Longevity – The coated surface does not caulk, crack and chip even in highly exposed conditions.
- Anti-Fungal and Anti Algal – Prevents the fungal growth and Algal attack on coated surface.
- Faster Completion – Reduces the labour time and help in faster completion due to brushable system of application.
- Reduced CAPEX – Reduced CAPEX as compared to the Sand-Cement plaster / Aluminum Cladded system.
- Reduced OPEX – Reduces Energy Losses, maintenance & reworking cost and increases Overall System Life.

Standards Conformation

- Weathering Resistance - ASTM D 6695.
- Resistance to water vapour permeance -ASTM E 96.
- Rain Water Resistance-As per ASTM D 6904.
- Surface Flammability - ASTM E 84.
- Resistance to fire at liquid stage- ASTM D 3278.
- Algal Resistance -ASTM D 5589.
- Antimicrobial Efficacy -ASTM E 2315.
- Fungal Resistance -ASTM G21 and ASTM D 3273.

Type of Building / Application

- Industrial Application.
- Oil and Gas/Chemical Industries.
- Pharmaceutical & Process Industries.
- Food & Beverage industries.
- Health Care & Hospitality.
- Green Buildings.
- IT / ITES, Commercial & Public Building & Spaces.
- VRV / VRF piping system based Air-conditioned buildings.

Recommended Method of Application

- Clean the substrates to be coated, so that they are free from dust/rust/oil/moisture.
- **For Open Cell Fibrous Insulation (Glass Wool/Rock Wool).**
 - a. Tightly wrap 10 mil Glass Cloth of recommended quality over the Insulation & overlap the joint at least 5 cm. Remove wrinkles. For Pipe wrapping, usage of glass cloth tape is recommended.
 - b. Apply the first coat of Weather Protekt by brush and allow it to cure at ambient for at least 4-6 Hrs.
 - c. Post Curing apply the second coat of Weather Protekt for smooth and uniform finish.
 - d. For critical applications, apply 3rd coat after 4-6 Hrs of curing of 2nd coat.
 - e. Allow to cure the multi coat system for minimum 24 Hrs at ambient temperature.
- **For Closed Cell Insulation(Nitrile/EPDM/XLPE)**
 - a) Apply first coat of Weather Protekt over insulation by brush uniformly.
 - b) Wrap tightly 10 mil Glass Cloth of recommended quality over the Insulation & overlap the joint at least 5 cm.
 - c) Remove wrinkles, air pocket. For Pipe wrapping, usage of glass cloth tape is recommended.
 - d) Immediately apply second coat of Weather Protekt for smooth and uniform finish.
 - e) For critical applications, apply 3rd coat after 4-6 Hrs of curing of 2nd coat.
 - f) Allow to cure the multi coat system for minimum 24 Hrs at ambient temperature.

Precautions & Limitations

- Do not dilute. Dilution distorts the product performance.
- Keep the containers closed when not in use.
- Allow to dry coated substrate for 24 Hrs before further work, avoid application during rain and very high humidity condition to avoid wash off/slow drying issue.

MSDS is available on request.

Typical Data

- | | |
|--------------------------------|--|
| • Appearance | : Milky White Thixotropic Opaque paste |
| • Viscosity at 30° ±1°C | : 500 - 900 poise |
| • Temp. Resistance | : -18°C to 100°C |
| • VOC | : < 40 gms/kg |
| • Coverage by Brush | : 1.5-2 m ² / kg / coat (with recommended quality of Glass Cloth) |

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

Green and IAQ Quotient

- Meets IEQ Credit 5 for IEQ.
- VOC tested as per EPA 24.

Shelf Life & Storage

24 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

25 kg and 5 Kg plastic pail.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021

USPRO Construction FOAM

Single component self-expanding polyurethane foam for filling gaps between HVAC duct / chilled water/VRV/ VRF pipes and doors/windows/walls.

Description

USPRO Construction FOAM is a single component self-expanding polyurethane foam used primarily to seal, fill, fix & adhere to the gap between HVAC Duct/ Chilled water/VRV/VRF Pipes and door/ window/wall. Foam is water resistant, CFC free & environment friendly.

Recommended Application Area

- HVAC Ducts : To seal, fill, fix and adhere the gap between Duct & Structure.
- Chilled Water Pipe : To seal, fill, fix and adhere the gap between Chilled Water Pipes & Structure.
- VRV/VRF Pipe : To seal, fill, fix and adhere the gap between VRV/VRF Pipes & Structure.
- To repair , seal fix fill and adhere hole or gap in Walls and between doors or windows.
- Sealing of mechanical and electrical penetrations through compartment walls and floors.

Unique Features and Benefits

- Large Gap/Cavity filler with moisture curing technology.
- Can seal gaps even on running chilled water & VRV/VRF pipes.
- Excellent sealing on most of construction materials without primer.
- Hard foam is developed post curing.
- Expansion of the foam ensures the gaps are properly sealed.
- Can be used for electrical wirings and cable gap filling.
- Cured foam can be painted/coated to suit the aesthetics.

Recommended Method of Application

- Ensure all surfaces are free from oil, greases, loose particles and dust.
- Shake the canister thoroughly 20 times approximately before use.
- Attach the plastic straw using the screw mechanism on canister firmly and aim straw at gap then spray.
- Fill vertical joints from the bottom up.
- While filling the gaps in ceiling, uncured foam may drop because of gravity. Support extruded foam properly after filling until foam is cured and adhered to the gap.
- Allow foam to be tack free for approx. 10 minutes. Foam can be cut after 60 minutes of application.
- Use a knife to smooth the cured foam and treat surface with cement, paint or silicone sealant if required.

Precautions & Limitations

- The canister must be capped immediately after use to avoid exposure to atmosphere.
- Remove wet stains with acetone. Dry stains can only be removed mechanically.
- Cured foam may turn yellow by direct exposure to UV rays.
- Use of PPE's (protective hand gloves, mask & goggles) is strongly recommended.

MSDS is available on request.

Typical Data

- Density : 15-30 kg/m³
- Tack free time : 9-13 min
- Cutting time : 60 min approx
- Closed cell : 60-70%
- Temperature resistance : -40°C to +90°C
- Yield per 750 ml : 45 litres

(Under identical lab test conditions at ambient sprayed in free area).

Shelf Life & Storage

- Shelf life is 9 months when stored at 20°C from date of manufacturing in factory sealed canister.
- Store in cool & dark shaded place away from the sunlight in tightly closed condition.
Product is packed in canister with pressure of 5-6 kg/cm @25 °C.
- Ensure that temperature won't exceed 50 °C during storage & transportation to avoid explosion.

Packing

750 ml Canister.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVISEAL MULTIPURPOSE SILICONIZED ACRYLIC SEALANT

Multipurpose Siliconized Acrylic Sealant

Description

FEVISEAL MULTIPURPOSE SILICONIZED ACRYLIC SEALANT is a ready to use, siliconized, water base acrylic sealant which on drying gives good waterproof crack bridging and sealing for wide variety of interior and exterior surfaces. Contains silicone additive which provides flexibility, durability and improves substrate adhesion. It is easy to apply and is compatible with most materials used in HVAC duct construction. It gives a clear finish on complete curing.

Recommended Application Area

- Sealing gaps in HVAC Ducting between flanges and Joints.
- Sealing Gaps between doors and panels in Cold Storages.
- Sealing of aluminium /glass window frame joints, fixing glass into aluminum frames in lieu of rubber beading.
- Can be used for all types of interior sealing and gap filling such as around AC ducts, vents, pipes & fittings, frames of exhaust fan etc.

Unique Features and Benefits

- Ready to Use – Single component solution, directly applicable through cartridge.
- Non-Sagging – It is completely non-sagging in nature.
- Clear Finish on complete drying.
- Flexibility – Tough & flexible after curing so performs well during expansion & contraction.
- Excellent adhesion to variety of substrates.
- Noncorrosive – Hence can be safely used for MS and GSS HVAC ducts.
- Low VOC.

Recommended Method of Application

- Clean the surfaces to be sealed so that they are free from dust/dirt/rust/oil/moisture and any other contaminants.
- Assemble the cartridge in the manual or pneumatic cartridge dispensing gun.
- Cut the cartridge nozzle with the help of cutter or knife to get the required bead size at 45-degree angle.
- Immediately apply the material with a continuous uniform pressure quickly on the surfaces and run a tool to remove the excess sealant.
- Wash the hand and tools with water.
- Allow the sealant to dry for 4 hrs before exposing it water droplets and 24 hrs drying is required before exposing it to pressurized water. Full drying will take 7 days.
- Masking tape can be used to get straight and uniform finish. Please note that the sealant on extrusion is white in colour and completely turns clear within 7 days.

Precautions & Limitations

- Not recommended in areas where abrasions or physical abuse can be expected.
- Do not apply below 5°C and above 45 °C.
- Not suitable on powder coated surfaces, damp substrates, trafficable applications, and places where there would be continuous water immersion.
- Not to be used on PE, PP and Teflon.
- Not suitable for exterior applications and as an architectural sealant.
- Do not use for filling gaps on masonry & cementitious surfaces.

- Some people are sensitive to solvents, resins and hardeners so it is advisable to use hand gloves and goggles during application.
- Avoid application on damp and moist substrates and at temperature below 5°C.

MSDS available on request.

Typical Data

• Appearance	:	White uniform paste on extrusion turns clear after 7 days
• Skinning time @ 30°C	:	10 – 30 min
• Curing time @30°C /60 % RH	:	2 mm thickness per day
• Paintability	:	Paintable after Minimum 2 hrs drying is required for water base and 24hrs for oil paint application
• Shrinkage (% V/V)	:	Below 40
• Coverage	:	11.2 linear meter (5 mm width x 5 mm depth joint)

Shelf Life & Storage

Store in cool and dry place. The material has a shelf life of 2 year from date of manufacturing, if stored at 5 to 30°C and 50 % relative humidity.

Packing

280 ml plastic cartridge with separate nozzle. Available in Clear and White.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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.

Rev. No. 0.01 / August 2021

FEVISEAL NEUTRAL PRO

Neutral Silicone Sealant

Description

FEVISEAL NEUTRAL PRO is a one-part Neutral Cure Silicone Sealant, non-slump, moisture-curing RTV (room temperature vulcanizing) that cures to form a tough, medium modulus rubber for long-term flexibility and durability.

Recommended Application Area

- Sealing gaps in HVAC Ducting between flanges and Joints.
- Sealing of aluminium /glass window frame joints, fixing glass into aluminum frames in lieu of rubber beading.
- Can be used for all types of interior and exterior sealing of gaps around AC ducts, vents, pipes & fittings, frames of exhaust fan etc.

Unique Features and Benefits

- UV Resistant - Good UV resistance.
- Ready to Use - No mixing is required, directly applicable through cartridge.
- Non-Sagging – It is completely non-sagging in nature.
- Flexibility – Tough & flexible after curing so performs well during expansion & contraction.
- Curing – Cures by moisture absorption from air at ambient temperature & relative humidity.
- Self-Priming - No primer is required when sealing joints in glass, ceramics and vitreous surfaces.
- Anti-fungal.

Recommended Method of Application

- Clean the surfaces to be sealed so that they are free from dust/dirt/rust/oil/moisture and any other contaminants.
- Assemble the cartridge in the manual or pneumatic cartridge dispensing gun.
- Cut the cartridge nozzle with the help of cutter or knife to get the required bead size at 45-degree angle.
- Immediately apply the material with a continuous uniform pressure quickly on the surfaces and run a tool to remove the excess sealant.
- Wash the hand and tools with water.
- Allow the sealant to dry for 4 hrs before exposing it water droplets and 24 hrs drying is required before exposing it to pressurized water. Full drying will take 7 days.

Precautions & Limitations

- Do not use in fish tanks and food industries.
- Do not use for structural glazing application.
- Not to be used where over coating of painting is required to be done.
- Do not use for filling gaps on masonry & cementitious surfaces.
- Not for application requiring architectural sealant.
- Some people are sensitive to solvents, resins and hardeners so it is advisable to use hand gloves and goggles.
- Avoid application on damp and moist substrates and at temperature below 5°C.

MSDS available on request.



Typical Data

- | | | |
|--------------------------|---|--|
| • Appearance | : | Thick uniform thixotropic paste free from bubbles. |
| • Skinning time | : | 5.0 - 20 minutes. |
| • Curing time | : | Approximately 24 hrs for 1 mm at 25. |
| • Temperature resistance | : | - 40°C to + 150°C. |
| • Coverage | : | 11.2 linear meter (5 mm width x 5 mm depth joint). |

Shelf Life & Storage

Store in cool and dry place. The material has a shelf life of 12 months from date of manufacturing, if stored at 5 to 30°C and 50 % relative humidity.

Packing

280 ml plastic cartridge with separate nozzle. Available in Clear, White, and Black.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



FEVICOL HEATX

Premium contact adhesive for high temperature resistance insulation bonding application

Description

FEVICOL HEATX is a specially formulated rubber-based adhesive ideal for applications which need high temperature resistance, quick grab property and strong spring back resistance such as bonding various insulation material on curved surfaces and underdeck application on exposed metallic ceilings, Hot water lines & low pressure steam lines.

Recommended Application Area

- Bonding insulation to exposed metallic roofs.
- Ideal for High temperature application such as Hot water lines, low pressure steam lines etc. with compatible insulation material such as Nitrile rubber, EPDM, XLPE, Glass wool/Rock wool.
- HVAC ducting – To bond Nitrile rubber, EPDM, XLPE, Glass wool/Rock wool to duct surfaces.
- Chilled water Piping - To bond Nitrile rubber, EPDM, XLPE, Glass wool/Rock wool to MS Pipelines.
- Acoustic Insulation – To bond XLPE, nitrile Rubber to concrete walls, wood metal surface and duct.
- Thermal storage and hot water tanks – To bond Nitrile rubber, EPDM, XLPE to MS tanks.

Unique Features and Benefits

- Highly recommended for bonding application with temperature upto 165 °C.
- Outstanding performance for curved surfaces.
- Superior performance at sub zero temperature in refrigeration application.
- Rapid and strong bond development.
- Excellent bond durability (aging resistance).

Types of Building Application

- Industrial Sheds.
- Prefab structures.
- Solar Hot water system.
- Healthcare and Hospitality buildings.
- Pharmaceuticals.
- Food and Beverages.
- Research center and Laboratory.
- High Density areas such as malls, airports, auditorium etc.

Recommended Method of Application

- Surface to be bonded should be dry, clean, and leveled.
- Stir the adhesive properly before use.
- Apply the adhesive uniformly by spreader or brush first on non-porous surface and then on porous surface.
- Allow a minimum drying time of approx. 4-6 minutes at room temperature and then press surfaces carefully so that the alignment is as required.
- Cure for 24 hrs at ambient temperature.
- For underdeck application, apply minimum two coats of adhesive on both the surfaces. (if required, extra coats can be done depending on substrate porosity).
- Give appropriate pressure to ensure removal of air gaps and strong bond.

Precautions & Limitations

- Keep container when not in use, Stir adhesive well before use.
- Contains flammable solvents hence precaution is required for storing.
- Adhesive or vapor from adhesive should not come in contact with fire spots, naked flames, or welding area on shop floor/work site.
- Do not use adhesive on undulated surfaces.
- Use of PPE's (protective hand gloves, mask, goggles) is strongly recommended.

MSDS is available on request.

Typical Data

• Appearance	:	Greenish Yellow Liquid
• Viscosity @ 30°C	:	23 – 30 Poise
• Temperature resistance	:	-20°C to 170°C
• VOC	:	< 700 gms/Lit
• Coverage by spreader	:	4.5 m2 / litre (For bonded area)

(Under identical lab test conditions at ambient, on smooth non-porous substrate)

Shelf Life & Storage

Shelf life is 18 months from the date of manufacturing. The material should be stored in cool and dry place. (Recommended storage 20°C to 30°C).

Packing

5 lit tin.



NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021



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

Bonded Area: Combined area bonded by applying adhesive on insulation and metal/concrete. E.g. 1 ltr adhesive is applied over 8 m2 of Nitrile and 8 m2 Galvanised Iron(GI), then Nitrile and GI are bonded together, so bonded area is 8m2

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

Carcinogenic Compound: Benzene & Chlorinated solvents are carcinogenic compounds which causes cancer while continuous inhalation, majorly used in Low Engineered Adhesive.

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 as 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 centimetre 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.

Grab: Immediate hold/Strength of the adhesive. Higher grab means higher initial bond strength.

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.

Reflectance: Reflectance of the surface of a material is its effectiveness in reflecting radiant energy.

Relative Humidity: The amount of water vapor in the air, expressed as a percentage of the maximum amount that the air could hold at the given temperature. A percentage scale to measure the level of humidity in the atmosphere: from 0% which indicates the air is absolutely dry to 100% which indicates the air is saturated

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.

Thermal Conductivity: Is the property of a material to conduct heat. Materials of high thermal conductivity are widely used in heat sink applications and materials of low thermal conductivity are used as thermal insulation.

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

VOC: VOC are Organic Chemicals that have a high vapour pressure at ordinary room temperature which causes large numbers of molecules evaporate or sublime and enter the surrounding air.

Abbreviations

ASTM: American Society for Testing and Materials

CFC: Chloro Floro Carbon

EPS: Expanded Polystyrene

GI: Galvanised Iron

IAQ: Indoor Air Quality

IEQ: Indoor Environmental Quality

MS: Mild Steel

MSDS: Material Safety Data Sheet

RH: Relative Humidity

PIR: Poly Iso Cyanurate

PUF: Poly Urethane Foam

TDS: Technical Data Sheet

UL : Underwriters Laboratory

VRV/VRF: Variable Refrigerant Volume/ Variable Refrigerant Flow

VOC: Volatile Organic Compound

XLPE: Crosslinked Polyethylene

Standards

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

ASTM D 4804: Standard Test Method for Determining the Flammability Characteristics of Non rigid Solid Plastics

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

ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials

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

IS2448: Standard Test Methods for Water Vapor Transmission of Material

ASTM D 5589: Standard Test Method for Determining the Resistance of Paint Films and Related Coatings to Algal Defacement

ASTM E 2315: Standard Guide for Assessment of Antimicrobial Activity Using a Time-Kill Procedure

ASTM D 2842: Standard Test Method for Water Absorption of Rigid Cellular Plastics

ASTM D 6904: Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied on Masonry

ISO 2812: Determination of resistance to liquids -- Part 1: Immersion in liquids other than water

NOTE : (Due to continuous product improvements, the data mentioned in this TDS herein, supersedes all earlier versions and, subject to change without prior intimation). 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 expresses 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.

Rev. No. 0.01 / August 2021

[illegible][illegible]

Notes :

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Pidilite Industries Ltd.

Pidilite Large Users Business

MEP Solutions Business 2nd Floor Marketing Block, Ramkrishna Mandir Road, Andheri (East) Mumbai - 400059

T +91-22 3308 7369 | sachin.gupte@pidilite.com