Technical Adhesive Tapes
Loft conversion

Keeping you connected.
Our business units

Tapes  Cables  Cable Assemblies
Coroplast was founded back in 1928. In the early years, the company extruded PVC – a new material at that time – to make insulation sleeves, cables and insulated wires. The material expertise and process know-how that Coroplast acquired during these years enabled it to commence production of PVC electrical insulating tapes after 1945, paving the way for the new Adhesive Tapes Division. It is now more than 40 years since Coroplast’s transition from a pure manufacturer of insulating tapes to a provider of technical adhesive tapes in selected markets. This journey has been accompanied by a passion for innovation and the courage to explore new technologies and go down different paths. Examples of this include:

- The shift towards environmentally-friendly, solvent-free adhesive systems and hot-melt acrylic
- The use of hot-melt technology in new products
- Numerous patent registrations
- Continual development of the product range toward special products for specific, customer-oriented applications

Coroplast insulating tape is already legendary. Even the more recent of our products already enjoy a considerable market presence and some are already leaders in their target markets. Coroplast is an independent family owned company that specializes in the development and production of technical adhesive tapes. As a result, we have short decision-making channels that enable us to respond quickly and flexibly to customers’ and market requirements and at the same time work on sophisticated technical development projects and enhance our international presence. The Adhesive Tapes Division has production plants and distribution centers on three continents and operates with a global network of distributors. The in-house formulation and production of a range of pressure-sensitive adhesives has been an important factor in the company’s success and it underlines Coroplast’s commitment to being an adhesive tapes brand that delivers exceptional quality.

As well as synthetic rubber, Coroplast also offers single- and double-sided adhesive tapes with dispersion adhesive and solvent acrylic adhesive, also in modified form, as well as hot-melt acrylic and self-adhesive acrylic compositions. Customers and users can be found worldwide in technically demanding sectors of trade and industry, a great many of them being automobile manufacturers and their suppliers. It goes without saying that Coroplast is certified in accordance with ISO TS 16949.

The company also provides a wide variety of different packaging and dispensing methods: From single rolls, converter rolls and cross-wound spools to die-cut parts, including processing aids. Many different options are available and even in customer-specific packaging if requested. Our convictions and values – namely a pioneering mentality and desire to strive for technical improvements, coupled with speed – are the reasons why Coroplast is consistently able to deliver new solutions and products for the market and individual customers. Find out more about our strengths in developing and producing customer-specific solutions and special requests in conjunction with you, our customers needs. Our experienced and capable development team will be glad to advise you, whatever adhesive tape solutions you may need.
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Properties of Coroplast RPX adhesive tapes

**Moisture-repellent**
Coroplast RPX adhesive tapes are not affected by steam or dripping water because the adhesive is extremely moisture-repellent. Adhesive tapes made with conventional dispersion adhesives allow water or moisture to seep underneath the edges, penetrate the adhesive and render it useless. That’s why Coroplast RPX adhesive tapes are a much more reliable alternative, e.g. for applications in saunas and baths. Hydrophobized non-wovens will not be penetrated by moisture when using RPX adhesive.

**Easy to use**
Coroplast 1430 RPX is equipped with a special film backing that peels off the adhesive surface quickly, in one piece and without leaving any residue. Film backings offer an advantage over paper backings because they more or less automatically provide the user with an edge to peel it off during processing.

**High adhesive strength**
Coroplast RPX adhesive tapes are equipped with UV cross-linked acrylates: a new generation of adhesives in the construction sector that provide maximum adhesive strength. These adhesives have been used in the automotive sector for many years with excellent results. The strong initial tack develops full adhesive strength after only a short time, ensuring the absolutely firm bonding of the adhesive tape.

**Can be applied from –10°C**
We have formulated RPX adhesive tapes in a way that they remain firmly in place, even at low temperatures. Temperature resistance when bonded is always –40°C or +80°C; and the adhesive does not become brittle or dry out.

**Environmentally friendly**
The pressure-sensitive adhesives in the Coroplast RPX range are extremely environmentally friendly. No solvents are required in the production process, and only minimal quantities of water are used. The adhesive tapes are solvent-free, do not contain any formaldehyde or other environmentally harmful substances (e.g. emulsifiers, APEOs). Coroplast 1410 RPX and Coroplast 1430 RPX are Emicode-tested and bear the EC 1 plus mark – ideal preconditions for developing a healthy environment and residential air quality without contamination.

**Very good shear resistance**
Any adhesive used to bond sarking membranes needs to have high shear resistance, particularly if an airtight adhesion of construction elements is required. Coroplast RPX adhesive tapes provide optimum shearing resistance for permanent airtight bonding in loft conversions and dry wall installations.

**Resistant to weathering**
Coroplast 1410 RPX, 1420 RPX and 1430 RPX adhesive tapes provide lasting UV stability, which makes them perfect for outdoor applications. They can easily withstand natural weathering for at least three months – Coroplast 1410 RPX up to six months. They also ensure permanent ageing resistance since the adhesive does not become brittle.
Coroplast 960 RPX
Tyvek® adhesive tape

Applications, advantages and properties
› For bonding joints of diffusible sarking membranes and films or underlay seams of PP or PE fleeces or PE non-wovens (e.g. Tyvek®) for indoor and outdoor use
› Equipped with a special acrylic adhesive, therefore moisture and water-resistant
› High tensile strength longitudinally, can be torn laterally by hand
› Very good flexibility at low temperatures and excellent resistant to ageing
› Strong adhesive suitable for construction sites
› High adhesive strength
› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Good adhesion to smooth or slightly rough surfaces
› Weather-proof for approx. 3 months
› Diffusible tape system ($S_d = 0.3 \text{ m}$)

Coroplast 1420 RPX
Special non-woven adhesive tape

Applications, advantages and properties
› Particularly suitable for invisible bonding of black wall lining membranes behind partially open facades
› For hermetically sealing overlapping areas of vapor retarders and barriers in accordance with DIN 4108-7
› All-round adhesive tape with special acrylic adhesive for a strong grip in exterior and interior constructions
› Strong adhesive suitable for construction sites
› Diffusible PP non-woven
› Excellent temperature resistance
› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Extremely good ageing properties
› UV resistant and weatherproof for 3 months

Technical data

<table>
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<tr>
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<th>Coroplast 960 RPX</th>
<th>Coroplast 1420 RPX</th>
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<tr>
<td>Carrier</td>
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<td>acrylic</td>
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Coroplast 1410 RPX
Reinforced film adhesive tape

Applications, advantages and properties

› For hermetically sealing interior penetration points (pipes, cables, rafters) of vapor retarders and barriers as well as PP or PE fleeces
› For bonding film splices and underlay seams as well as other work where flexibility of the tape is required
› Can be torn laterally
› Ensures airtight layer in accordance with EnEV and DIN 4108-7
› Coated with special acrylic adhesive with extremely high moisture resistance
› Good adhesion to all smooth or slightly rough substrates (e.g. films, fleece, timber, plastic)
› Strong adhesive suitable for construction sites
› Outstanding ageing properties

› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Meets the strict requirements of GEV and is labeled with Emicode EC 1 plus
› Weatherproof for approx. 6 months
› Applicable at temperatures as low as –10°C
› Strength tested by the Fraunhofer Institute
› Centrally splitted liner (SL version) see page 55

Technical data

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<th>Carrier</th>
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Private labels: Customized printing and packaging in accordance with customer specifications possible
Coroplast 1430 RPX
Single-sided special paper adhesive tape

Applications, advantages and properties

› Splash-water repellent special paper adhesive tape for ensuring the airtight construction in accordance with EnEV and DIN 4108-7
› For hermetically sealing underlay seams, vapor retarders and barriers made of fleece, PP or PE
› Coated with special, extremely moisture-resistant acrylic adhesive
› Can be torn laterally
› Equipped with a film interliner, thus no tearing or tearing off of the covering when processing
› Good adhesion to all smooth or slightly rough substrates (e.g. films, fleece, timber, plastic)
› Strong adhesive suitable for construction sites
› Outstanding ageing properties

› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Meets the strict requirements of GEV and is labeled with Emicode EC 1 plus
› Weatherproof for approx. 3 months
› Applicable at temperatures as low as –10°C
› Strength capacity tested by the Fraunhofer Institute
› Centrally splitted liner (SL version) available on request, for 60 mm width also double-split liner (15 : 15 : 30) available, e.g. for sealing window profiles

Private labels: Customized printing and packaging in accordance with customer specifications possible

<table>
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<tr>
<th>Technical data</th>
<th>Coroplast 1430 RPX</th>
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</table>
Coroplast 1450 RPX

Double-sided adhesive tape

Applications, advantages and properties
› Double-sided adhesive tape for hermetically sealing overlapping areas of vapor retarders and barriers made of fleece, PP or PE
› For durable fixing of films to e.g. wooden beams, metal sections and stud frames
› Good adhesion to all smooth or slightly rough substrates
› Equipped with non-woven reinforcement and special acrylic adhesive with extremely high resistance to moisture
› Paper interliner makes tapes easy to tear by hand
› Strong adhesive suitable for construction sites
› Very good ageing properties
› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Applicable at temperatures as low as –10°C

Coroplast RPX-Patch

Special paper adhesive patch

Applications, advantages and properties
› For hermetically sealing, e.g. openings in timber frame constructions and as a repair kit for vapor barrier sheeting
› Based on Coroplast 1430 RPX
› Equipped with special acrylic adhesive with extremely high resistance to moisture
› Fingerlifts on longitudinal sides
› Easy to tear at perforation
› Good adhesion to all smooth or slightly rough substrates (e.g. films, fleece, timber, plastic)
› Outstanding ageing properties
› Free of solvents, emulsifiers and other emulsion additives (APEOs)
› Weatherproof for approx. 3 months
› Applicable at temperatures as low as –10°C
› Also available for Coroplast types 960 RPX, 1410 RPX and 1420 RPX

Technical data

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<th>Coroplast RPX-Patch</th>
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<tr>
<td><strong>Carrier</strong></td>
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<td><strong>Adhesion on steel</strong></td>
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<tr>
<td><strong>Temperature range</strong></td>
<td>–40 to +100°C</td>
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Hermetic attic sealing
with a range of variations

Coroplast RPX adhesive tapes are specially designed for secure and durable sealing of vapor retarders and barriers on underlay seams in various types. Furthermore, they are used for sealing in wood frame constructions and also useful to repair cavity wall insulation holes. We offer as many versions and product options as needed in the entire range of requirements for high-quality solutions in loft conversion, attic air sealing and window profile penetration protection. For example you can select RPX products as die-cut parts (patches) or as rolls. Moreover, we can offer special versions for individual requirements, e.g. splitted liner version or equipped with fingerlift for easy handling.

Rolls:
Especially suitable for hermetically sealing longer water vapor retarders or interior film splice penetration points and corners in wood frame constructions. You can choose from several widths from 50 mm to 330 mm, so that parts that do not fit flush can also be sealed hermetically.

Die-cut parts (patches):
Coroplast RPX patches are used for sealing and repairing cavity wall insulation holes. We offer 160 mm x 160 mm patches but they are also ideal for repairing of larger holes or damages, e.g. 250 mm x 240 mm.

Rolls with splitted liner (SL version):
To handle sealing application in corner parts or splices of membranes at roof beams, purlins or windows easily, a splitted liner can be very helpful. While bonding one part of the adhesive tape by removing half of the liner, the other part can be kept covered and used later separately.

Fingerlift:
You can optionally select RPX products with fingerlifts on both longitudinal sides. This may accelerate the application process, because the liner can be removed easily from the tape. Coroplast RPX patches can also be ordered with fingerlifts.

Rolls with double splitted liner:
For some special applications a single splitted liner might not be enough. That is the reason why we can offer RPX products that have a widths of e.g. 60 mm or more with a liner that is splitted two times. The liner can be splitted centrically first and 10 mm or 15 mm from the edge the second time. The smaller strip can be used for bonding window profiles in the first step, the other strips can be removed for hermetically sealing several airtight layers.

Perforations/patches:
We supply Coroplast patches with fully perforated carrier, adhesive and liner – in defined lengths. The patches are therefore easy to tear off from the roll in uniform sizes and no additional cutting tools are required. Also available with splitted liners, e.g. as SL-version patch.

We specialize in providing adhesive tape in many different versions – customized to suit your individual requirements and applications – try us!
Glossary

Abrasion resistance
Abrasion resistance is the resistance of an adhesive tape to rubbing or friction. Adhesive tapes are classified according to abrasion classes A (low abrasion resistance) to G (outstanding abrasion resistance for special applications) in line with LV 312.

Acrylic adhesive
Acrylic adhesives are made of polymerized acrylic acid esters. They can be mixed with resin to enhance tack. These adhesives are available as solutions, watery dispersions or as hot melt adhesives. Their special characteristics include high ageing, temperature and chemical resistance, good compatibility with cable insulations and high resistance to UV radiation and oxidation.

Adhesion
Adhesion describes the hold between the surface of the adhesive tape and the taped material.

Adhesive force
Adhesive force combines the terms adhesion and cohesion and describes the force that is necessary to remove an adhesive tape from a surface. Standardized laboratory tests per EN 1939 are conducted to achieve comparable values. A 20 mm-wide strip of adhesive tape is applied to a steel plate and rolled on with a steel roller. It is then pulled off at a specified speed and at angle of 180° and the force required to pull it off is measured in N/cm.

Ageing resistance
Adhesive tapes used in the automotive industry are subjected to various ageing tests (e.g. temperature endurance tests) to ascertain whether and how their properties change as a result.

Backing material
The backing material is the carrier material to which the adhesive is applied.

Breakdown voltage
The minimum voltage that makes an insulator act as a conductor. It is significant for electrical insulating tapes and is measured in kV/mm.

Cohesion
Cohesion describes the inner stability of the adhesive. Adhesives with low cohesion leave a residue on the substrate when the adhesive tape is removed.

Compatibility
Ability of two or more materials to interact without impairing the performance of any one component. A good compatibility of the adhesive tape with the cable insulation is a necessity when the cables are being wound.

Dispersion adhesive
In dispersion adhesives, the adhesive polymer particles are finely dispersed in water. Most dispersion adhesives are solvent-free. Emulsifiers have to be added to stabilise the dispersion.

Elongation at break
The strain required to break the material. For adhesive tapes this is specified according to EN 14410 and it is stated in %.

Hot-melt adhesive
A solvent-free adhesive that is applied hot. Both acrylic adhesives and synthetic rubber-based adhesives can be processed hot.

Initial tack
Pressure-sensitive adhesives bond on contact. This is called initial tack. Some adhesives, especially adhesives on a butyl or acrylate basis, only achieve maximum adhesion some hours or days after they have been applied.

Laminate
Different backing materials are joined inseparably (laminated) whereby the combination of their respective properties results in a new back material.

Leak tightness
Leak tightness is a material’s barrier function against substances such as chemicals, moisture or gas.

Liner
Films and papers coated on one or both sides with silicone are used as liners pressure-sensitive sensitive adhesives. The siliconization makes them adhesive-repellent, which prevents this unintentional bonding of the various layers.

LV 312
A recognized testing guideline (Leistungs-Vorschrift) published by German automotive manufacturers for rating of wire harness tapes.

μm (micron)
A micrometer or micron is one millionth of a meter or one thousandth of a millimetre (0.001 mm). It is used to measure the thickness of materials such as films.

N
Newton is a unit of measure for force.

Non-woven
Textiles made of natural or man-made fibers without weaving. The non-woven’s internal stability is achieved by pressing under heat or by stitching the individual fibers.

Operating temperature
The operating temperature is the range of temperatures at which the adhesive bond remains intact and has nothing to do with the processing temperature. Electrical insulating tapes are classified according to EN 60454 and wire harness tapes according to LV 312.

Polyamide (PA)
Depending on the carrier, adhesive tapes with a PA backing material exhibit high temperature and abrasion resistance. Adhesive tapes with PA textile or PA velour backing material possess the highest level of abrasion resistance as defined by LV 312.
Polyester (polyethylene terephthalate, PET)
PET films and fabrics have outstanding tensile strength and tearing resistance. They are extremely resistant to high temperatures, alkaline solutions, acids, oils and many solvents. PET fabrics generally unite high abrasion resistance with good resistance to high temperatures and chemicals.

Polyethylene (PE)
PE films are soft and elastic, with high leak tightness and low tensile strength. Polyethylene is solvent-resistant but sensitive to UV radiation. These films are used to make electrical insulating tapes and anti-corrosion tapes.

Polypropylene (PP)
PP films are halogen-free and their properties are comparable with those of PE films. Although they are slightly less flexible, they are more temperature-resistant and can be used as a substitute for PVC adhesive tapes.

Polyvinyl chloride (PVC)
PVC films have good ageing and UV resistance properties. That is why PVC adhesive tapes are often used for outdoor applications. Different quantities of plasticizer can be added to PVC to make it extremely flexible. PVC adhesive tapes are widely used as electrical insulating tapes due to their flame-retardant properties and good dielectric breakdown values.

Pressure-sensitive adhesive
A permanently active adhesive that is widely used on adhesive tapes or labels. As the name indicates, the adhesive is activated by pressure. Secure bonding of the adhesive strip is achieved by pressing it down firmly.

Primer
A primer improves adhesion on surfaces that make adhesion difficult. It is often applied as a solvent-containing coating.

Processing temperature
The temperature at which adhesive tapes can be processed. As far as possible, however, they should be applied at ambient temperatures between +10°C and +30°C.

Rubber-based adhesive
Rubber-based adhesives consist of natural or synthetic rubber with added resin and softeners to provide adhesive tack. These adhesives are available as solutions or hot-melt adhesives. They have high initial adhesion but limited resistance to chemicals, solvents and UV radiation. Rubber-based adhesives are less temperature- and plasticizer-resistant than acrylic adhesives.

Sₐ value
The Sₐ value is the measurand of the water vapor permeability of a substance. The higher the value, the less water vapor permeates the substance in comparison with air.

Shear resistance
Shear resistance is the bonding strength of an adhesive when it is pulled off parallel to the glued surface (0° angle). It is tested by applying a section of adhesive tape to the end of a vertical steel plate and attaching a weight to the other end. Shear resistance is measured either as the time until the bond breaks or the maximum weight that the adhesive can bear.

Shelf life
The time for which an adhesive tape can be stored without any notable impairment of performance. Adhesive tapes generally have a shelf life of at least 6 months.

Silicone
Silicone is made of chemically modified SiO₂ (sand). It has an adhesive-repellent surface and is therefore used on release papers or films (liners).

Solvent-based adhesive
50% of the adhesive often consists of a mixture of different solvents that have to be vaporized when the coating is applied to the backing material. Rubber adhesives and acrylic adhesives can be applied as solvent-based adhesives. Adhesive tapes with these adhesives often have a distinctive odor as a result of incomplete vaporization of the solvents.

Sound dampening
The extent to which adhesive tapes dampen noise. Adhesive tapes are classified in sound dampening classes A (low sound dampening) to E (maximum sound dampening) per LV 312. It is measured in dB(A).

Tack
A measure of the viscous flow of an adhesive that describes its stickiness at minimum application pressure. Tack is measured in tests such as the “rolling ball test”, in which a steel ball is rolled onto the adhesive surface. The distance that the ball rolls until it sticks to the from a ‘ramp’. is measured. The shorter the distance, the higher the tack.

Telescoping
Telescoping is when the adhesive tape protrudes from the side of the roll as a result of internal pressure. This deformation does not affect its adhesive properties. Telescoping can be caused by the rolls being too tight or by improper storage or transport conditions (temperature, moisture).

Tensile strength
The pull stress required to break a material. For adhesive tapes, tensile strength is determined in accordance with EN 14410, and it is stated in N/cm.

Textiles
Textiles may be cloth, made of warp and weft, or non-wovens. Yarn and fibers are usually made of polyester, viscose or polyamide.

Unwind force
The force that is necessary to unwind the adhesive tape from the roll. Unwind force is measured in N (Newton).

UV radiation
Ultra-violet radiation is a component of sunlight that can cause chemical reactions. UV radiation can also be used for cross-linking to improve the stability of acrylates.
Coroplast – Production sites for technical tapes

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Tunisia: El Kef . Hammamet
Mexico: Acámbaro