Installation + Care Guidelines

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ECOUSTIC® PANEL INSTALLATION GUIDE

The installation guidelines below are applicable to the following ecoustic® products: ecoustic® Panel, ecoustic® Screen, ecoustic® Print (including Timbre & Timbre Point Panel), ecoustic® Solid Core, ecoustic® V Panel + Tile, and ecoustic® Dual Panel + Tile.

Please read the entire Installation Guide prior to installation:
- This guide contains recommendations, however it is not a step-by-step guide.
- We recommend viewing the ecoustic® installation video on unikavaev.com before installation.
- Unika Vaev will not accept responsibility for installation and recommends installation by an experienced and professional trades-person.
- If you have any questions regarding installation techniques please contact Unika Vaev at 800-237-1625.

Before you cut and install this product:
- All products are inspected prior to dispatch however upon receipt customers must check that the products have not been damaged during transportation and note any damage on the delivery receipt. Unika Vaev is not responsible for any damage during transportation or storage of the product.
- Variations in the thickness and fiber mix are an inherent feature of this product due to the nature of the manufacturing process. Variations from panel to panel can occur and each panel should be checked prior to fabrication or installation. To accommodate these variations installation may require on-site adjustment by the contractor to achieve a flush and professional finish.
- The receiver of the goods must ensure the correct product, color, and quantity have been received against a reference sample and inspect the product for any defects immediately.
- Panels and boxes are sequenced to ensure color matching between panels.
- Color variation in the ecoustic® Felt can occur. To minimize color variation, panels must be installed in the box and panel number sequence as supplied. Failure to follow this instruction may result in an unsatisfactory finish.
- Prior to installing the panels must be laid out in order of numerical sequence to check for color variation. By cutting and installing the panels you are accepting the panels as suitable for use. We regret that once the panels are cut and installed Unika Vaev cannot accept responsibility for any color variation.
- ecoustic® Panels are supplied in box and panel numeric sequence to assist in the installation and identification process as per the examples below.
- All ecoustic® Dual and ecoustic® V Panels remain within the original panel used to produce each design. In order to protect the integrity of the actual panel, there is an exterior frame cut around the perimeter of the panel. This frame is intended to be disposed of upon removal of the actual panel.

PANEL LABEL
[Example]

Felt Batch No #:	21822 LGR
Production Date:	23/07/14
Production Seq No#:	50 OF 50
Roll Number:	00001

Panel Number

Labels are located on the back of each panel in the top right corner.

Panels are labeled and packed in production sequence to minimize variation in color when the panels are installed.

A visual inspection of the color match is required prior to installing the panels.

BOX LABEL
[Example]

Instyle Contract Textiles INSTYLE Ecoustic Panel 13.5mm	
Product Width	1210 mm
Product Length	2720 mm
Fabric Color	L/GREY
Qty Per Box	5
First Panel No:	1
Last Panel No:	5
Packed By:	Mike
Box No:	1 / 45

Panel Sequence Number within Box

Each panel is numbered individually, panels are arranged in order within the box.

From first panel in box

To last panel in box

Box Sequence Number

Install in box sequence number.

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Specifications	ecoustic® Panel 0.31"	ecoustic® Panel 0.53"	ecoustic® Panel 0.98"	ecoustic® Panel 1.97"	ecoustic® Screen 0.47"
Composition	100% PET (up to 80% recycled content)				
Thickness	0.31" (+/- $^1/_{16}$")	0.53" (+/- $^1/_{16}$")	0.98" (+/- $^1/_{16}$")	1.97" (+/- $^1/_{16}$")	0.47" (+/- $^1/_{16}$")
Weight (+/- 10%)	0.32 lb/sq ft	0.56 lb/sq ft	0.54 lb/sq ft	0.85 lb/sq ft	0.55 lb/sq ft
Density	12.1 lb/ft^3	12.7 lb/ft^3	6.4 lb/ft^3	5.2 lb/ft^3	14 lb/ft^3
Dimensions	47 $^5/_8$" x 107 $^1/_{16}$" (+/- $^3/_{16}$" x $^3/_8$" respectively)				95 $^1/_4$" x 47 $^5/_8$" (+/- $^3/_8$" x $^3/_{16}$" respectively)
Environment	Low-VOC, Global Greentag Level A Certification, Cal 01350, EPD, HPD, mindful MATERIALS, Declare Emissions Compliant, Recycled Content, + Rapidly Renewable Content				
Acoustic (Direct Fix)	NRC 0.30	NRC 0.50	NRC 0.85	NRC 1.00	NRC 0.50
$^9/_{16}$" Airgap	NRC 0.40	NRC 0.60	-	-	NRC 0.60
$^{15}/_{16}$" Airgap	NRC 0.45	NRC 0.65	-	-	NRC 0.65
1 $^{15}/_{16}$" Airgap	NRC 0.55	NRC 0.70	-	-	NRC 0.70
Application	Screen, wall, and ceiling panel				
Please Note	Variation in thickness, fiber mix, color, as well as flecks and other slight surface blemishes are an inherent feature of this product and are unavoidable. Variation from batch to batch may occur. Printed products are screen printed by hand using hand mixed printing paste. Care is taken to minimize print color variation, however variation from batch to batch may occur.				

Transport:
- Transport horizontally and top load only.

Handling and Storage:
- ecoustic® products are a semi-rigid product and care must be taken when handling and storing to not damage the product. Boxes and panels should be handled with care and carried vertically upright by two tradespeople.

ONLY CARRY BOXES/PANELS UPRIGHT   DO NOT CARRY BOXES/PANELS HORIZONTALLY
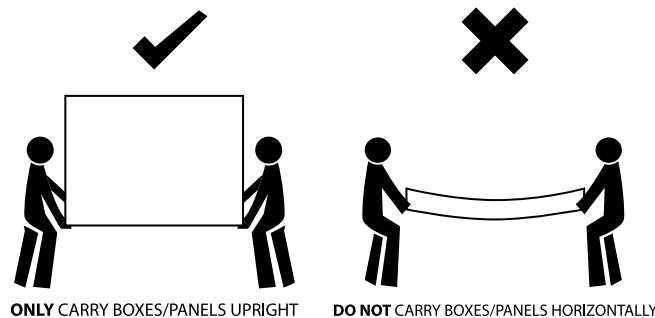
- Wear clean gloves when handling the products to prevent any soiling/marking.
- Avoid bending or flexing the panels as this can cause creasing.
- ecoustic® product must be stored indoors, in a clean, dry, cool, and well ventilated area.
- Do not store directly on a concrete floor or any other surface that emits moisture.
- The entire panel must be laid flat on a solid, horizontal, dry surface. Do not store the panels on their edges.
- Take care to keep both sides of the panels clean during storage.
- Keep workbenches clean to avoid soiling and scratching the products.
- Before cutting the products remove and inspect the entire panel for defects. Then recover to protect the panel during fabrication.
- Avoid exposure to heat 150°F (65°C) or greater. Do not store ecoustic® products near radiators, steam pipes, or in direct sunlight.

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Tools Required:
- Gloves, cloth, sealing tape, tape measure, utility knife, Festool saw with metal cutting guide, metal guides, marker, slow drying construction adhesive, contact adhesive, drop sheet, smooth carpet roller, aluminum strips, drill, wall mates, screws, square, laser, rivet, paint spatula.

Surface Preparation:
- Before installation, ensure walls and surfaces are clean, dust free, and free of imperfections (dents and cracks should be filled and sealed with suitable interior grade materials).
- Use sealing tape (following manufacturer's instructions) to tape all joins in the products to stop dust and foreign matter migrating from the wall cavity through to the ecoustic® product.
- We recommend wiping down the wall surface with a clean, damp cloth.

Measuring and Checking:
- Before installation, measure the wall or ceiling area and check the installation plan.
- Check the length of each wall section, as most walls are not perfectly straight or level.
- Use a level to verify that the wall is flat and even. If it is not sufficiently level, you may need to correct the wall or mount the panels to split battens.
- All ecoustic® products (except ecoustic® V Panels) must be measured and trimmed prior to installation. Ensure that the panels are square and if required, cut a straight edge using a long blade utility knife or Festool Saw and metal cutting guide. Then proceed in cutting the panels to the appropriate length.

Important Notes:
- All ecoustic® products are to be fitted and installed with the correct and consistent orientation, to avoid any variation in color and pattern. It is important that the direction of print pattern is taken into consideration when planning the installation. Mark the back to ensure all panels are installed with the correct orientation to avoid any color and pattern variation.
- Only vertical or portrait orientation is recommended for installation of ecoustic® panels (except ecoustic® V Panels). Due to typical lighting conditions, horizontal installation can highlight ledging / joins between panels.
- ecoustic® Panel is supplied at $107\,^{1}/_{16}$" x $47\,^{5}/_{8}$" (2720mm x 1210mm) and ecoustic® screen is supplied at $95\,^{1}/_{4}$" x $47\,^{5}/_{8}$" (1210mm x 2420mm) to allow for squaring off and trimming to size. ecoustic® V Panels do not require trimming.
- Where the wall area cannot be divided into an increment of $47\,^{1}/_{4}$"(1200mm), it is important to consider the placement of the smaller panel(s), either at one end, or two equal smaller panels at each end if the panels at each end are to be mirrored on either side.
- All ecoustic® products must be installed in the correct sequence. Please refer to the box sequence number and install the ecoustic® products according to the box sequence number and the order in which the ecoustic® products are packed, or if labeled, install in numerical sequence as detailed on the back of the panel.

Installation - ecoustic® Prints:
- ecoustic® Prints are hand printed onto ecoustic® Panel and ecoustic® Screen. All printed panel and screen products will be supplied with an unprinted border around all sides of the print and must be measured, squared up, and trimmed from the print edge on all four sides, even when using the edging profiles.
- All ecoustic® Print products will need to be trimmed according to the specific trimming instructions for each print provided with each delivery and on unikavaev.com. Do not measure and trim from the edges of the panel and screen.
- On a cutting table, ensure that the prints are square and if required, take a straight edge between the pattern at both ends and trim. Then cut to the appropriate length taking the pattern repeat into consideration.
- Due to the artisan nature of the hand printed process, there may be slight variations in the prints. Therefore, always check panels side by side for correct pattern matching prior to cutting and installing.
- Trial fit panels and check for pattern matching as well as thickness variances. To achieve a flush finish, space out any thinner panels if required (please refer to Installation – Butt Joining Method on page 6).
- Joins may be obvious upon installation and there will be a paneling effect.
- Apply contact adhesive, clean any spills, and wait the drying guide time before installing panels according to sequence number.
- ecoustic® Prints are designed to pattern match in the full width from panel to panel in the horizontal direction.
  Note: The patterns are railroaded when used as ecoustic® Screen.

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Installation - ecoustic® Edging Profiles:

- ecoustic® Panels can be installed with natural anodized aluminum edging profiles which are available for each panel thickness (0.35", 0.57", 0.98" and 1.97"). Unika Vaev recommends the use of edging with our 0.98" and 1.97" panels. Anodized aluminum "T-Trim" edging is a one size fits all for 0.53"-1.97" ecoustic® Panels.

0.35" Edging   0.57" Edging   0.98" Edging   1.97" Edging
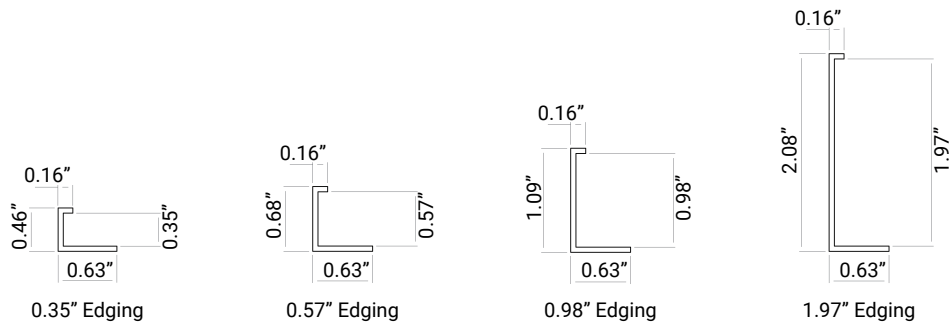
- If the perimeter of the series of panels are not abutted to a wall, ceiling, or floor, it is necessary that aluminum edging be used to enclose the exposed edges of the panels. Intermediate panels in the series must be tightly butt joined to enclose panel edges.
- The edging profiles can be used back-to-back, either butted firmly against each other, or with a space between to create a shadow line detail as per the diagrams below.


- For external corners, the edging profile can be overhung from the wall corner edge as per the diagram below. For internal corners, the edging profile can be affixed by measuring the outside dimension of the relevant edging profile from the corner as per the diagram below.
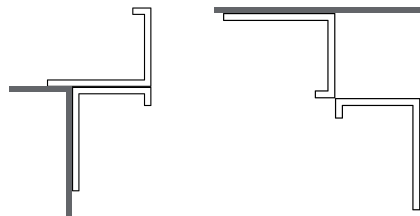
- Mark position of edging according to the panel width and measure and cut edging to the same size as the wall length. If necessary, drill an extra hole so the edging can be fixed to the wall at each end. Line up the edging and mark the position for the screws. Drill holes, insert anchors, and then drill screws to secure.
- If the wall is not level, the edging may need to be secured firmly together, either on or off the wall.
- All ecoustic® Panel products must be measured and squared-up prior to installation.
- Cut the ecoustic® Panels to the required size. The panels must be installed individually and according to the sequence number.
- Lay a drop cloth onto the floor before applying adhesive.
- Trial fit panel to wall, then apply contact adhesive using the adhesive manufacturer's instructions and clean off any spills.
- After waiting the drying guide time, tuck the panel into the edging and lightly run your hand or a smooth carpet roller across the entire panel to ensure adequate adhesive transfer and a strong bond. Repeat this process for the next panel.
- Aluminum edging must be installed two edging lengths at a time.

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Installation - ecoustic® T-Trim
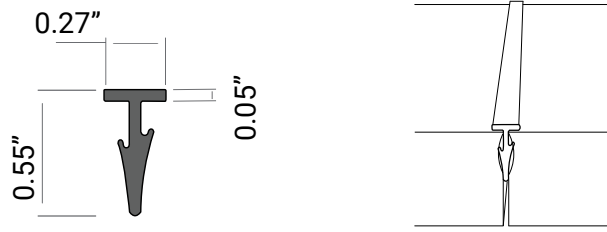
- T-Trims can generally be tapped into panel junctions of installed 0.47", 0.53", 0.94", 0.98", and 1.97" thick panels.
- T-Trim can be used to conceal junctions within 0.47" Solid Core panels, including ecoustic® Timbre, and Timbre Point panels. Please note the T-Trim depth is 0.51", therefore the trim can be used with 0.47" Solid Core panels in either of the following style options: Expressed with T-Trim protrusion approx. 0.04" beyond the surface of the 0.47" Solid Core panel oe surface flush via the use of 0.04" approx packers behind the 0.47" Solid Core panels.
- Step 1: Measure the panel junction length. Ensure T-Trim length is suitable for exposed panel area. Cut ecoustic® panel to length if necessary and align T-Trim to panel junction.
- Step 2: If the void between adjoining panels is larger than the arrow shaped head of the ecoustic® T-Trim or if the T-Trim is not holding in position, carefully apply small beads of adhesive within the panel junction void. Ensure adhesive is applied in accordance with the manufacturer's specifications and is not able to reach the panel surface. Softly tap ecoustic® T-Trim into junction.

Installation - Butt Joining Method
- All ecoustic® Panel products must be measured and squared-up prior to installation.
- Lay a clean drop cloth onto the floor before applying adhesive.
- All ecoustic® products must be installed in the correct sequence.
- Unika Vaev recommends that you install the panels individually for ease of installation. This includes the application of adhesive and rolling the panel.
- Panel thicknesses can vary by 0.04" - 0.08" (1mm - 2mm). Therefore, check the thickness of the panels required to fit a wall or space and trial fit a few panels by using a slow-drying construction adhesive and check for variances at the eyeline level.
- If there are variances, some panels may need spacing to achieve a flush finish. Use either double sided tape, a thick strip of construction adhesive, or alloy strips to the back of the panel to space it out.
- On a clean drop cloth, carefully spray or brush on contact adhesive to the entire panel and wall installation area. Clean off any adhesive spills if required.
- To ensure adequate adhesion and a tight join, adhesive can be applied to the wall along the butt-joins with a paintbrush. Care should be taken not to apply excessive adhesive along the joins as this can leak at the seams when pressure is applied.
- Ensure the adhesive has tacked-off sufficiently then fit the ecoustic® product to the wall. Where joining panels with a butt-join it is recommended that the panel is fitted firmly to the join first, then smoothed out to the edges applying even pressure to ensure adequate adhesive transfer and a strong bond.
- Gently press or use a smooth carpet roller and roll the panels towards the butt-joins, then roll the entire panel to ensure adequate adhesive transfer and a strong bond, until it is flush with the other panels.

Cutting:
- Important: Cutting and machining techniques must be tested on a piece of scrap prior to cutting the panel to ensure the highest possible finish.
- Always use sharp and clean blades.
- Always use slow, consistent feed rate.
- Hold sheet firmly while cutting to minimize vibration; use just enough clamp pressure to prevent vibration.
- Feed against the rotation of the blade or tool.
- Proper safety equipment must be worn at all times.
- Do not cut with a dull blade or cutter.
- Do not apply excessive clamping pressure.
- Do not use a blade with side-set teeth.
- Do not remove safety guards from equipment.

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Machine Cutting:
- As ecoustic® product is made from 100% PET, it has characteristics similar to plastic and overheating may cause it to melt or fuse slightly on the heated contact points. To reduce heat while cutting or trimming the ecoustic® product, make several passes rather than trimming 'deep' through the product.
- Consider the tool speeds so that the ecoustic® product does not melt from frictional heat. Generally, best results are achieved when using the highest speed at which overheating of the tool or product does not occur.
- Hard, wear-resistant tools with greater cutting clearances than those used for cutting metal are suggested. High-speed or carbide-tipped tools are efficient for long runs and provide accuracy and uniformity of finish. Bring the blade to full speed before starting the cut. Secure the ecoustic® product during cutting operations to minimize vibration.

Sawing:
- Any of the following saw types should be satisfactory for cutting ecoustic® product: Festool saw and metal cutting guide, circular saws, band saws, saber saws, or jigsaws. Although some saw designs are better suited than others for sawing ecoustic® product because they produce smoother or faster cuts. Circular saws and band saws usually produce the best surfaces, and they can be used in most sawing operations.
- Blade design plays an important part in successful sawing of ecoustic® product. A skiptooth band saw blade is preferred because the wide gullet provides ample space for the plastic chips to be carried out of the kerf (the cut made by the saw). For best results, the teeth should have zero rake and some set. For a curved cut, the blade should be narrower and have more set than for a straight cut. The blade must be kept sharp to prevent melting or chipping of the sheet, and the blade guide should be placed very near the cut to minimize vibration.
- A circular saw is preferred to a band saw for straight cuts even though it tends to generate more heat.
- A perforated saw blade will run cooler than a solid blade. It is essential that the spindle bearing is tight so that the saw will run true.
- ecoustic® product can also be cut in other ways including traditional workshop tools such as a jig saw, router, die cutter, or even using manual techniques such as guillotining or cutting with an art knife.

Drilling: (This applies <u>ONLY</u> to ecoustic® Panel: 0.31", 0.35", 0.47", 0.53", 0.94" and ecoustic® Screen)
- Drill bits must be sharp and clean.
- Proper safety equipment must be worn at all times.
- Do not apply excessive clamping pressure.
- Do not remove safety guards from equipment.
- *Do not drill ecoustic® Panel: 0.98" or 1.97".*

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Fixing:

- ecoustic® products can be fixed by glue.
- There are many options with using adhesives; however these leave some residue on the ecoustic® product that must be removed when recycling the panels.
- Water based or solvent type adhesives can be used to adhere ecoustic® product. All common substrates including plasterboard, timber, MDF, block, and concrete must be sealed prior to application of the adhesive.
- The installer must ensure that the adhesive supplier has proven that their product is suitable for fixing ecoustic® product to the intended substrate.
- Unika Vaev recommends a test panel be used on the substrate to ensure a satisfactory bond.

**Wall Fixing - Construction Strength Adhesive**
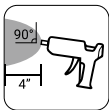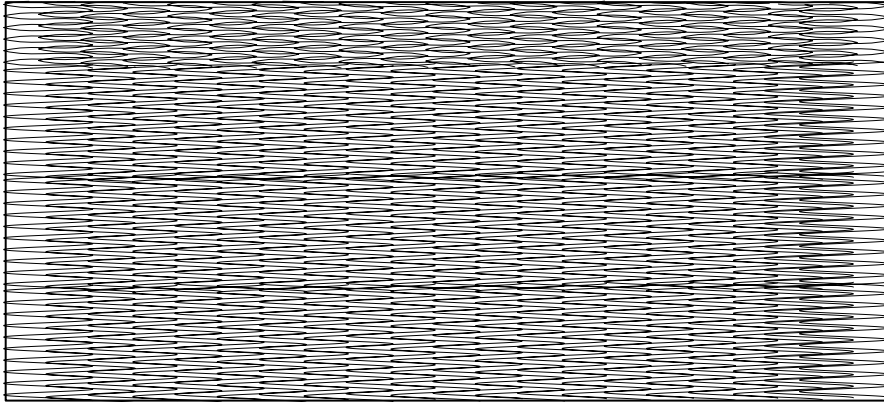
Spray the adhesive about 4 - 8 inches away at a 90 degree angle to the wall surface, applying a uniform, even coat of adhesive to obtain 80 - 100% surface coverage.

Spray evenly on the back surface of the panel with a 50% overlap for full coverage. Apply one even coat of adhesive onto matting with no overlap. Leave surfaces to tack off for 1-2 minutes, or until dry to touch using the back of your knuckles.

Place surfaces together and apply even pressure to establish the bond. A roller can be used where appropriate to ensure even pressure across the entire bond surface.
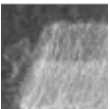
√ You should be able to clearly see the web pattern of the adhesive on the surface of your substrate.

X If you can see air bubbles or build up of adhesive in your spray pattern, then you are either spraying too close to the surface of the substrate or moving your gun too slowly.
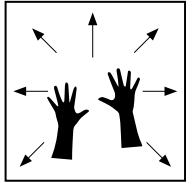
X If the spray pattern on your substrate looks wispy (like spiderweb) then you are spraying from too far away. Move your gun a little closer to the substrate.
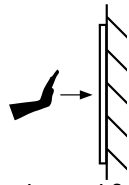
X If the spray pattern is thin and looks drawn out, then you are spraying too quickly.

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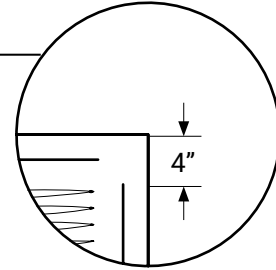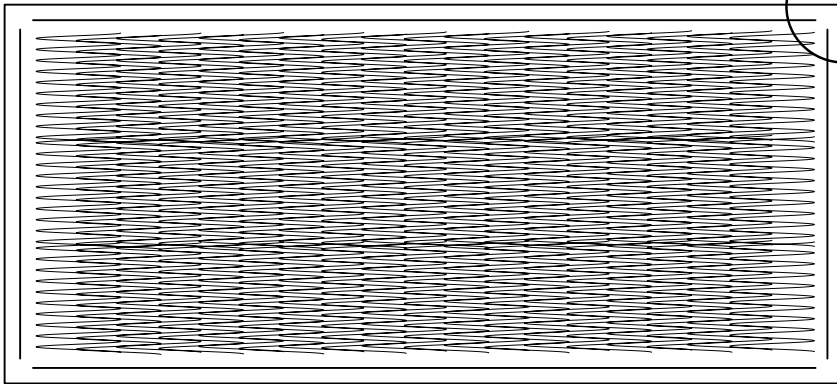## Wall Mounting Method- Construction Strength Adhesive

Bond panel to substrate, working from the middle of the panel outwards

Push panel firmly with clean hands

Adhere surfaces and press together with adequate pressure. A roller is recommended to apply a uniform pressure to achieve maximum strength. Allow 24 hours for the adhesive to fully cure.

Ceiling Fixing - Construction Adhesive + Contact Spray Adhesive

4"

Contact spray adhesive to cover typically 4 inches around perimeter of the panel

Spray Adhesive

Follow the instructions as per Wall Fixing with Construction Adhesive as well as applying Contact Spray Adhesive

Ceiling Fixing - Bead Pattern Contact Spray Adhesive

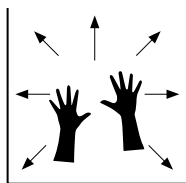Hold Contact Spray Adhesive gun close to the surface at a 45º angle

Apply strips of adhesive approx 4 - 8 inches apart to one substrate
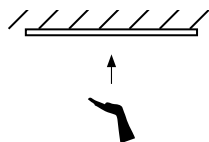
Place surfaces together and apply gentle pressure to allow the foamy adhesive to spread across the surface of the substrate

Ceiling Mounting Method - Contact Spray Adhesive

Bond panel to substrate, working from the middle of the panel outwards

Push panel firmly with clean hands

Adhere surfaces and press together with adequate pressure. A roller is recommended to apply a uniform pressure to achieve maximum strength. Allow 24 hours for the adhesive to fully cure.

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IMPORTANT - Wall + Ceiling Fixing Adhesive
- Maximum bond strength is achieved with 100% coverage and recommended coat weight of 0.6 dry oz/yd²
- If necessary, spray another coat of adhesive in areas that appear to need more adhesive
- Spray both surfaces to be bonded, for eg. one surface vertically and the surface horizontally
- Allow enough time for the glue line to tack-off (1-2 minutes or until dry but tacky to the touch without any transfer of wet adhesive to fingers) before placing panels and creating the bond
- Apply the panel to create the bond within the open time of the Tensor Grip X41 adhesive (within 45-60 minutes)
- If you have exceeded the open time, spray a fresh glue line and adhere within the open time
- Full surface pressure must be applied to bonded panel using a roller within 10 minutes of the panel being applied to facilitate full adhesive transfer and a strong bond
- Initial bond is strong enough to allow for cutting or trimming immediately if needed
- The bonded panel should be smooth and free of air bubbles, wrinkles, gaps and / or blemishes

Customization:
The thickness, dimensions, and textile lamination of ecoustic® product can be customized to your special requirements to reduce labor time and costs. Please contact Unika Vaev for pricing and minimum order quantity details.

If you have any questions, please contact your local distributor.

ECOUSTIC® CARE INSTRUCTIONS:
The care instructions below are applicable to the following ecoustic® products:
- ecoustic® Felt
- ecoustic® Panel
- ecoustic® Screen
- ecoustic® Printed Panel
- All products comprised of ecoustic® Solid Color Core

Please Note:
Consideration must be given to any possible effect of the cleaning regime on the underlying glue or backing board. It is recommended that spot cleaning only is used and that it is carried out by a professional cleaner.

Regular Care:
- Protect from direct heat and sunlight.
- To prevent dust build up, lightly dust with a soft cloth or vacuum with a soft brush attachment.

Spot Cleaning:
- Professional cleaning is always recommended.
- Always test any cleaning products on an inconspicuous area prior to commencing cleaning.
- Blot any excess spills from the material with a dry clean sponge or cloth.
- Treat all stains and spills as soon as possible.
- Most marks can be spot cleaned by lightly wetting the affected area with a mild detergent and warm water solution.
- Do not saturate the panel, screen, or felt.
- Do not scrub or abrade the fabric as this will affect the surface finish.
- Once the stain or mark has been loosened then blot the excess solution out with a dry clean cloth.
- Sponge afterwards with clean warm water and mop any excess moisture with a dry clean sponge or cloth.
- The fabric can also be spot cleaned with dry cleaning fluid. Lightly sponge a small amount of dry cleaning fluid and blot.
- Dry away from direct heat and sunlight.
- Avoid the use of carpet shampoos.

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SAFETY DATA

Description:
Non-woven and/or thermally bonded and laminated 100% polyester panel type products used for sound absorptive linings for commercial fit out applications, wall and ceiling panels, workstation screens, partitions, and pin board substrates.

Product Range:
The ecoustic® collection is available in various densities and thicknesses of 0.31", 0.47", 0.53", 0.98", and 1.97".

Composition:
Organic long chain synthetic polymer

Hazards:
Classified as Non-Hazardous according to the criteria of the Australian Safety and Compensation Council ASCC. Approved criteria for classifying Hazardous substances. [NOHSC: 1008] 3rd edition.

First Aid:
Swallowed / Eye / Skin / Inhaled: No special precautions

Storage and Transport:
Refer to Transport, Handling, and Storage Guidelines in this document.

Disposal:
Product is recyclable. If necessary, product can be disposed of in an approved landfill.

Personal Protection:
No Precautions necessary.

Ecological Information:
Product does not contain any ozone-depleting chemicals. 100% Recyclable

Fire/Explosion Hazard:
Relatively low flame response. Will not explode. Use any fire fighting appliance. Like most organic materials gives off CO, CO_2 and H_2O during combustion.

National Construction Code Fire Compliance:
Individual product fire test results are included on product descriptions and copies of the reports are available from Unika Vaev.

Fire Fighting Measures:
The material will melt if exposed to temperatures above 482ºF (250ºC). Plastic packaging and facings used may decompose or burn at or below this temperature. If subject to fire, evacuate area and contact emergency services. Use water fog to cool affected packs.

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Physical and chemical properties:
Appearance- White rigid and semi rigid panel board
Odor- None
Alkalinity- pH: 7.8 (pH 7 is neutral)
Boiling Point: N/A
Melting Point- 482°F (250ºC)
Vapor Pressure- N/A
Specific Gravity-1.38
Solubility- N/A
Percentage Volatiles- None
Flash Point- N/A
Decomposition Temp- > 482°F (250ºC)
Lower/Upper exposure Limits- N/A
Moisture Absorption- Exposure to an atmosphere of 122° F (50ºC) and 95% RH for four days gives a moisture absorption of less than 0.2% by volume.

The information in this guide is believed to be true at the time of publication. Unika Vaev reserves the right to change specifications without notice, and has no obligation or liability for persons misrepresenting or misusing this information in any manner whatsoever.

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