
RAUKANTEX MAGIC

Technical information

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Bonding RAUKANTEX pure magic

The edgebands in RAUKANTEX pure magic product range are all coated with an universal primer. It is therefore possible to process RAUKANTEX pure magic with conventional EVA, PUR or APAO based hot melt adhesives. The quality of the adhesive, such as thermal stability depends upon the hot melt adhesive selected. However, a very high level of heat resistance can be achieved using a heat resistant adhesive in conjunction with RAUKANTEX's very tight tolerances. It is therefore important to pay careful attention to the instructions provided by the hot-melt adhesive suppliers.

1. Processing on straightline edgebanders

RAUKANTEX magic I

Format trimming:

A cutting tool with a cutting angle of $> 40^\circ$ should be used where there are problems with splintering along the edges running at a right angle to the board.

Capping:

Change the cutting direction of the cap saw where there are problems with splintering. Where possible, cut towards the board.

Flush milling/radius milling:

Counter to board travel (away from the carrier). If there should be any problems with a disconnection of the layers, mill in same direction towards the carrier.

Scraper:

Adjust the scraper blade so that continuous and uniform chips are produced. If required, ask for information about the special "magic scraper" from our technical applications department

RAUKANTEX magic II and twin-level edging

Format trimming/capping/milling:

Process in the same way as normal PP edgeband (milling direction away from the board) counter direction.

Scraper:

Adjust the scraper blade so that continuous and uniform chips are produced. If required, ask for information about the special "magic scraper" from our technical applications department.

RAUKANTEX magic III

Format trimming/capping/milling:

Process in the same way as normal PP edgeband (milling direction away from the board) counter direction.

RAUKANTEX magic 3D

Format trimming/capping/milling:

Process in the same way as normal edgeband (milling direction away from the board) counter direction.

Supply store and feeding of edgeband:

It should be ensured that edgeband transport and edgeband guiding devices cannot cause any damage to the edgeband. Rubberised rollers in the edgeband feeder have proved their worth here.

2. Processing on processing centres

RAUKANTEX magic I

Flush milling/radius milling:

Milling direction towards the board (splintering may occur where the cutting direction is incorrect).

Infrared lamp/hot air:

The edgeband must be applied around the external radius free from tension. Therefore, select as high a lamp setting/hot air temperature and as low feed rate as possible in the area of the board's external radii. If the edgeband is not heated through sufficiently there is a risk of stress cracking. Equipment that is not fitted with an adequate heat source is not suitable for processing radii using magic I.

Scraper:

Adjust the scraper blade so that continuous and uniform chips are produced. If required, ask for information about the special "magic scraper" from our technical applications department.

Tips on cleaning and stress cracking

Stress cracking:

Essentially, all transparent hard plastics are susceptible to stress cracking if they are over stretched and are cleaned with more or less aggressive cleaning agents.

Depending on the extent to which the material is over stretched, stress cracking can be seen as a deep material crack, as a hairline crack, or as cloudiness on the transparent material.

For this reason, it is crucial that the edgeband is applied around the external radius of the board free from tension. This is achieved by sufficiently heating the edge material with UV rays or hot air.

Checking the selected fabrication parameters:

To control whether the selected processing parameters are suitable for applying around radii, the external radius of the sample board should be cleaned using a plastic cleaning agent (e.g. special plastic cleaner LP 305/98 from the company Riepe or FSG plastic cleaner from the company Schäfer). If cracks or cloudiness still appear on the surface of the edgeband then the parameters are not okay and or the edgeband has not been heated through sufficiently. To rectify the problem, apply more heat or increase the outer radius of the board. This simple preliminary check can be used to avoid subsequent complaints from end customers.

Edgeband repairs:

If small stress cracks do appear and are not too deep they can be eliminated by controlled local heat treatment with a hot-air blower. When using EVA or APAO adhesives in particular the heat must be applied sparingly otherwise the edgeband might become detached from the board.

RAUKANTEX magic II and twin-level edging**Format trimming/capping/milling:**

Process in the same way as normal PP edgeband (milling direction away from the board) counter direction.

Scraper:

Adjust the scraper blade so that continuous and uniform chips are produced. If required, ask for information about the special „magic scraper“ from our technical applications department.

RAUKANTEX magic III**Format trimming/capping/milling:**

Process in the same way as normal PP edgeband (milling direction away from the board) counter direction. Possible outside radius for chrome version: min: R 50

RAUKANTEX magic 3D**Format trimming/capping/milling:**

Process in the same way as normal edgeband (milling direction away from the board) counter direction.

Supply store and feeding of edgeband:

It should be ensured that edgeband transport and edgeband guiding devices cannot cause any damage to the edgeband. Rubberised rollers in the edgeband feeder have proved their worth here.

Hot melt application:

If the hot melt is applied directly onto the edgeband, use special glue application rollers e.g. rubberised in order to prevent any damage to the décor print.

The best quality, comprehensive service and ease of processing can be taken for granted for all RAUKANTEX designs!

More detailed information can be obtained from REHAU's technical applications department.

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AE: Middle East, +971 4 8835677, dubai@rehau.com AR: Buenos Aires, +54 11 48986000, buenosaires@rehau.com AT: Linz, +43 732 3816100, linz@rehau.com Wien, +43 2236 24684, wien@rehau.com AU: Adelaide, +61 8 82990031, adelaide@rehau.com Brisbane, +61 7 55271833, brisbane@rehau.com Melbourne, +61 3 95875544, melbourne@rehau.com Perth, +61 8 94564311, perth@rehau.com Sydney, +61 2 87414500, sydney@rehau.com AZ: Baku, +99 412 5110792, baku@rehau.com BA: Sarajevo, +387 33 475500, sarajevo@rehau.com BE: Bruxelles, +32 16 399911, bruxelles@rehau.com BG: Sofia, +359 2 8920471, sofia@rehau.com BR: Arapongas, +55 43 31522004, arapongas@rehau.com Belo Horizonte, +55 31 33097737, belohorizonte@rehau.com Caxias do Sul, +55 54 32146606, caxias@rehau.com Mirassol, +55 17 32535190, mirassol@rehau.com Recife, +55 81 32028100, recife@rehau.com BY: Minsk, +375 17 2450209, minsk@rehau.com CA: Moncton, +1 506 5382346, moncton@rehau.com Montreal, +1 514 9050345, montreal@rehau.com Toronto, +1 905 3353284, toronto@rehau.com Vancouver, +1 604 6264666, vancouver@rehau.com CH: Bern, +41 31 720120, bern@rehau.com Vevey, +41 21 9482636, vevey@rehau.com Zuerich, +41 44 8397979, zuerich@rehau.com CN: Guangzhou, +86 20 87760343, guangzhou@rehau.com Beijing, +86 10 64282956, beijing@rehau.com Shanghai, +86 21 63551155, shanghai@rehau.com Chengdu, +86 28 86283218, chengdu@rehau.com Xian, +86 29 68597000, xian@rehau.com Shenyang, +86 24 22876807, shenyang@rehau.com CO: Bogota, +57 1 898 528687, bogota@rehau.com CZ: Praha, +420 272 190111, paha@rehau.com DE: Berlin, +49 30 667660, berlin@rehau.com Bielefeld, +49 521 208400, bielefeld@rehau.com Bochum, +49 234 689030, bochum@rehau.com Frankfurt, +49 6074 40900, frankfurt@rehau.com Hamburg, +49 40 733402100, hamburg@rehau.com Leipzig, +49 34292 820, leipzig@rehau.com München, +49 8102 860, muenchen@rehau.com Nürnberg, +49 9131 934080, nuernberg@rehau.com Stuttgart, +49 7159 16010, stuttgart@rehau.com DK: København, +45 46 773700, kobenhavn@rehau.com EE: Tallinn, +372 6025850, tallinn@rehau.com ES: Barcelona, +34 93 6353500, barcelona@rehau.com Bilbao, +34 94 4538636, bilbao@rehau.com Madrid, +34 91 6839425, madrid@rehau.com FI: Helsinki, +358 9 87709900, helsinki@rehau.com FR: Lyon, +33 4 72026300, lyon@rehau.com Metz, +33 6 8500, metz@rehau.com Paris, +33 1 34836450, paris@rehau.com GB: Glasgow, +44 1698 503700, glasgow@rehau.com Manchester, +44 161 7777400, manchester@rehau.com Slough, +44 1753 588500, slough@rehau.com Ross on Wye, +44 1989 762643, rowy@rehau.com London, +44 207 3078590, london@rehau.com GE: Tbilisi, +995 32 559909, tbilisi@rehau.com GR: Athens, +30 21 06682500, athens@rehau.com Thessaloniki, +30 2310 633301, thessaloniki@rehau.com HK: Hongkong, +8 52 28987080, hongkong@rehau.com HR: Zagreb, +385 1 3444711, zagreb@rehau.com HU: Budapest, +36 23 530700, budapest@rehau.com ID: Jakarta, +62 21 45871030, jakarta@rehau.com IE: Dublin, +353 1 8165020, dublin@rehau.com IN: Mumbai, +91 22 61485858, mumbai@rehau.com New Delhi, +91 11 45044700, newdelhi@rehau.com Bangalore, +91 80 2222001314, bangalore@rehau.com IT: Pesaro, +39 0721 200611, pesaro@rehau.com Roma, +39 06 90061311, roma@rehau.com Treviso, +39 0422 726511, treviso@rehau.com JP: Tokyo, +81 3 57962102, tokyo@rehau.com KR: Seoul, +82 2 50116566, seoul@rehau.com KZ: Almaty, +7 727 3941301, almaty@rehau.com LT: Vilnius, +370 5 2461400, vilius@rehau.com LV: Riga, +371 6 7609080, riga@rehau.com MA: Casablanca, +212 522250593, casablanca@rehau.com MK: Skopje, +389 2 2402, skopje@rehau.com MX: Celaya, +52 461 6188000, celaya@rehau.com Monterrey, +52 81 81210130, monterrey@rehau.com NL: Nijkerk, +31 33 2479911, nijkerk@rehau.com NO: Oslo, +47 2 2514150, oslo@rehau.com NZ: Auckland, +64 9 2722264, auckland@rehau.com PE: Lima, +51 1 2261713, lima@rehau.com PL: Poznań, +48 61 8498400, poznan@rehau.com PT: Lisboa, +351 21 8987050, lisboa@rehau.com Oporto, +351 22 94464, oporto@rehau.com QA: Qatar, +974 44101608, qatar@rehau.com RO: Bacau, +40 234 512066, bacau@rehau.com Bucuresti, +40 21 2665180, bucuresti@rehau.com Cluj Napoca, +40 264 415211, clujnapoca@rehau.com RS: Beograd, +381 11 3770301, beograd@rehau.com RU: Chabarowsk, +7 4212 411218, chabarowsk@rehau.com Jekaterinburg, +7 343 2535305, jekatarinburg@rehau.com Krasnodar, +7 861 2103636, krasnodar@rehau.com Nishnij Nowgorod, +7 831 4678078, nishnijnowgorod@rehau.com Novosibirsk, +7 3832 000353, novosibirsk@rehau.com Rostow am Don, +7 8632 978444, rostow@rehau.com Samara, +7 8462 698058, samara@rehau.com St. Petersburg, +7 812 3266207, stpetersburg@rehau.com Woronesch, +7 4732 611858, woronesch@rehau.com SE: Örebro, +46 19 206400, orebro@rehau.com SG: Singapore, +65 63926006, singapore@rehau.com SK: Bratislava, +421 2 68209110, bratislava@rehau.com TH: Bangkok, +66 27635100, bangkok@rehau.com TW: Taipei, +886 2 87803899, taipei@rehau.com UA: Dnepropetrowsk, +380 56 3705028, dnepropetrowsk@rehau.com Kiev, +380 44 4677710, kiev@rehau.com Odessa, +380 48 7800708, odessa@rehau.com Lviv, +380 32 2958920, lviv@rehau.com US: Detroit, +1 248 8489100, detroit@rehau.com Grand Rapids, +1 616 2856867, grandrapids@rehau.com Los Angeles, +1 951 5499017, losangeles@rehau.com Minneapolis, +1 612 2530576, minneapolis@rehau.com VN: Ho Chi Minh City, +84 8 38233030, sales.vietnam@rehau.com ZA: Durban, +27 31 7657447, durban@rehau.com Johannesburg, +27 11 2011300, johannesburg@rehau.com Cape Town, +27 21 9821254, capetown@rehau.com East London, +27 43 7095400, eastlondon@rehau.com If there is no sales office in your country, +49 9131 925888, salesoffice.bd@rehau.com

© REHAU AG + Co
Rheniumhaus
95111 Rehau/Germany

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