



Excellence in Metal Coating

New Generation Coating Cylinder Coverings from Böttcher

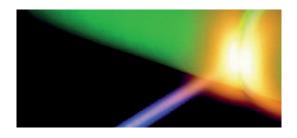
The Böttcher Group, with 20 production plants spread all over the globe, is committed to supporting the canmaking industry with innovative products and global technical support. Besides printing rollers, washes, fountain solution additives and blankets for metal decorating, Böttcher offers a full range of rubber and polyurethane compounds for coating cylinders. Coverings are available in durometers from 40 to 60 Shore A in rubber and from 50 to 60 Shore A in polyurethane.



Böttcher supplies both fully covered cylinders and coverings grooved to your specifications (both axial and radial grooves).

In addition, we can supply laser-engraved cylinder coverings for

In addition, we can supply laser-engraved cylinder coverings for spot varnishing (closures), which significantly reduce the coating consumption. Your local Böttcher representative can supply you with all the relevant details with regard to profiling.





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Chemical Trends and Demands

Today, the application of coatings in the canmaking process is a highly complex and critical operation: besides the function of protecting and maintaining the quality of the packed goods, can coatings are subject to an increased sensitivity of consumers, brand owners and regulators to the chemical interaction between canned foods and beverages and the coating materials. This has led to repeated changes in the constituents which can be used in coatings for metal packaging.

These changes represent new challenges for both canmakers and the suppliers of coatings and applicator rollers. A recent example is the removal of BPA from many packaging coatings (mandatory in some countries, voluntary in other cases). The substitution of other materials for the epoxy systems previously used has altered the chemical balance between the roller compounds and the coating materials, leading in many cases to problems with roller swelling.

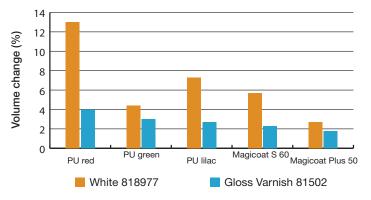
The Böttcher Group has worked closely with both canmakers and coatings manufacturers to develop roller coverings which have optimum chemical resistance to the new BPA-free or BPA-NI coatings.



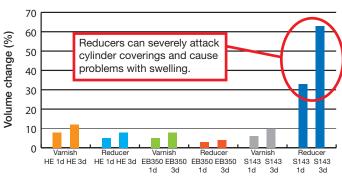


These new roller materials significantly reduce the effects of the coating on the elastomer covering, affording much more stable production conditions, longer roller life and a better and more even coating transfer. In many cases, it has been possible to replace the range of different roller compounds previously in use and standardize on one single compound with excellent tolerance towards practically all coatings and varnishes present at each site. To ensure that the very best compound for your particular application is selected, Böttcher backs its products up with a complimentary laboratory service which determines the compatibility of the different compounds with the coatings and varnishes used in your production process.

Swell Rates in Different Coatings: Competitive Comparison



Swell Effects of Varnishes/ Reducers on Coating Cylinders



Since the shift towards BPA-free and BPA-NI coatings, a lot of plants have experienced problems with swelling, sheets sticking to the cylinder surface, etc.. Our compatibility tests ensure that you receive the best compound match for your particular mix of coatings.

As the chart above shows, not only the coatings themselves, but also the solvents used to clean the cylinder surface can severely swell the cylinder covering. Böttcher has developed a series of cleaning agents specifically designed to remove coating residue from rubber and polyurethane covered cylinders quickly and effectively, without damaging the covering.



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The Vita range of products – tailored to the strict requirements placed on food and beverage packaging – has been independently tested and certified to conform with low migration standards, preventing contamination of the packaging and protecting its contents.







Downgauging/Lightweighting: Cost and Competitiveness

"Please release me, let me go …" was a popular song around a generation ago, but this sentiment can now be appropriately applied to the thinner tinplate which is being introduced to reduce the material cost of metal packaging, making it more economically competitive, particularly when compared to plastic.

The problem is that – on coating lines without grippers – the thinner sheets have a tendency to adhere to the coating cylinder surface and follow it around, causing not only waste, but a high risk of mechanical damage to the machine. "Quick release", a term better known from blanket technology, is now the order of the day for coating cylinder coverings. With experience in the design and supply of both rollers and blankets, Böttcher has the knowhow to produce coating cylinders with quick release surfaces, which go a long way to eliminating the problem.



New chemical formulations backed up by new technology in surface finishing are the building blocks in these new generation roller coverings. These same features also significantly reduce the problem of edge swell and instability on grooved rollers: repeat and welding gaps remain open, even in the critical corner areas, avoiding waste and downtime for changing the coating cylinder.

And best of all: Böttcher's new coating cylinder coverings are specially designed to make it easy for you to reproduce this quick release surface when re-grinding cylinders on your own equipment. Should you experience any problems at all in this respect, Böttcher will support you through highly trained surface finishing specialists who will help you fine-tune your grinding process to consistently achieve the best possible result.

Compound (Rubber)	Application
Magicoat 726 40	Softer (40 Shore A) cylinder covering in EPDM
Magicoat 731 50	50 Shore A covering, excellent grindability, suitable for laser engraving
Magicoat 733 50	50 Shore A, exceptional swell resistance, suitable for laser engraving

Compound (Polyurethane)	Application
Magicoat 50	For all coating and varnishing applications. Good transfer properties.
Magicoat 55	
Magicoat 60	
Magicoat S 50	Excellent mechanical properties, stable edges, low swell in BPA-NI coatings. Improved release properties for coating on low-gauge sheets.
Magicoat S 55	
Magicoat S 60	
Magicoat Plus 50	Top of the range for chemical resistance to all coatings, including BPA-NI. Excellent edge stability and sheet release.

FB Köln Felix Böttcher GmbH & Co. KG Stolberger Str. 351 - 353, 50933 Köln Phone: +49 (0) 221 4907 1 Fax: +49 (0) 221 4907 435 koeln@boettcher-systems.com

Gelsdorf (Compounding)
Böttcher Gelsdorf GmbH & Co. KG
Max-Planck-Str. Straße 2 - 6, 53501 Grafschaft
Phone: +49 (0) 2225 92 31 0
Fax: +49 (0) 2225 92 31 22
gelsdorf@boettcher-systems.com

Gelsdorf (Handrails)
Böttcher Gelsdorf GmbH & Co. KG
Max-Planck-Str. Straße 2 - 6, 53501 Grafschaft
Phone: +49 (0) 2225 92 32 0
Fax: +49 (0) 2225 92 32 49 / 51
gelsdorf@boettcher-systems.com

KB Bergheim KB Roller Tech Kopierwalzen GmbH Zum Frenser Feld 2, 50127 Bergheim Phone: +49 (0) 2273 942 0 Fax: +49 (0) 2273 942 129 info@kbrt.de

Argentinia Böttcher Sudamérica S.A. 1629 Pilar, Buenos Aires Phone: +54 (0) 2322 46 62 00 Fax: +54 (0) 2322 49 63 51 aschwald@bottcher-systems.com.ar

Australia Böttcher Australia Pty Ltd. Castle Hill, NSW 2154, Sydney Phone: +61 (0) 2 96 59 27 22 Fax: +61 (0) 2 96 59 27 44 info@bottcher.com.au

Austria Böttcher Österreich GmbH 2353 Guntramsdorf, Austria Phone: +43 (0) 2236 86 07 01 Fax: +43 (0) 2236 86 07 01 50 office@boettcher.at

Baltic States UAB Böttcher Balticum Radmès g. 3 B, 82142 Radviliškis Phone: +370 (0) 42 25 05 38 Fax: +370 (0) 42 25 05 38 bottcher@bottcher.lt

Brazil Böttcher do Brasil Ltda. Pari - São Paulo - SP ZIP: 03010-000 Phone: +55 11 26 18 18 66 Fax: +55 11 26 18 18 66 fabio@bottcherdobrasil.com.br

Canada Böttcher Canada Limited Mississauga, Ontario L4T 1G3 Phone: +1 905 612 07 38 Fax: +1 905 612 81 27 bob.nixon@boettcher-systems.com

China
Böttcher Printing Equipment (Suzhou) Co., Ltd.
215200 Wujiang, Suzhou, Jiangsu Province
Phone: +86 (0) 512 63 40 71 00
Fax: +86 (0) 512 63 40 75 57
suzhou@boettcher-systems.com

Czech Republic Böttcher CR. k.s. 68201 Vyškov Phone: +420 (0) 517 32 65 11 Fax: +420 (0) 517 34 17 18 bottcher@bottcher.cz

Denmark Teknisk Gummi Horsens A/S Norgesvej 6 8700 Horsens Phone: +45 76269377 Fax: +45 76623987

France
Böttcher France S.A.R.L.
77542 Savigny-Le-Temple Cedex
Phone: +33 (0) 1 64 10 50 50
Fax: +33 (0) 1 64 10 8 90
info@bottcher-france.com

Great Britain
Böttcher UK Ltd.
UK Sales Service Centre and Chemical Manufacturing
Clitheroe, Lancashire, BB7 1QU
Phone: +44 12 00 42 53 00
Fax: +44 12 00 42 61 78
salesandservices@boettcher-systems.com

Hong Kong Bottcher Hong Kong Ltd. Kwun Tong Kowloon Phone: +85 2 23 41 91 11 Fax: +85 2 23 41 91 55 kammyli@bottcher.hk

Hungary Böttcher Magyarország Kft. 6000 Kecskemét Phone: +36 (0) 76 50 53 50 Fax: +36 (0) 76 50 53 52 bottcher@bottcher.hu

India Böttcher (India) Pvt. Ltd. Böttcher (India) Pvt. Ltd.
409A, 4th Floor
DLF City Court
Sikanderpur
Gurgaon - 122002
Haryana, India
Phone: +91 (0) 12 44 00 17 94
Fax: +91 (0) 12 44 10 53 54
india.info@boettcher-systems.com

Trubiesia
PT. Bottcher Indonesia
Kawasan Industri Pulogadung, Jakarta 13920
Phone: +62 (0) 21 46 83 29 36
Fax: +62(0) 21 46 83 29 42 bottcher@cbn.net.id

Italy Böttcher Italiana S.P.A. Via C. Goldoni 24, 20090 Trezzano sul Naviglio Phone: +39 02 484 17 1 Fax: +39 02 484 17 342 boettcher-italy@boettcher-systems.com

Japan Boettcher Japan K.K. Tokyo 136-0075 Phone: +81 3 36 47 64 01 Fax: +81 3 36 47 64 11 tomiyama@boettcher.cp.jp

Korea

Norea Boettcher Korea Co., Ltd. Changhang-dong, Ilsadong-gu, Koyang-city, Kyunggi-do Phone: +82 (0) 31 907 67 81 Fax: +82 (0) 31 907 67 86 cjpark@boettcher.co.kr

Malaysia Böttcher Malaysia Sdn Bhd 47100 Puchong, Selangor Darul Ehsan Phone: +60 3 80 62 20 42 Fax: +60 3 80 62 42 03 mvoffice@bottcher.com.mv

Mexico
Bottcher Sistemas S. de R.L de C.V
Amado Nervo # 119-A Colonia Moderna
C.P. 03510 Delegacion Benito Juarez
Mexico Distrito Federal
Phone: +52 (0) 55 56 57 72 93
Fax: +52 (0) 55 56 57 94 19
enrique.iturbe@boettcher-systems.com

Middle East Boettcher Middle East FZ LLC Office 206, Circular Building PO. Box: 485025 International Media Production Zone (IMPZ) United Arab Emirates Phone: +971 / (0) 44 22 79 84 Fax: +971 / (0) 44 22 76 94 pius.marokky@boettcher.ae

The Netherlands Böttcher Nederland B.V. 4261 TK Wijk en Aalburg Phone: +31 (0) 416 69 71 90 Fax: +31 (0) 416 69 73 59 service@boettcher-systems.com

Poland

Poland Böttcher Polska Sp. z o.o. 05-870 Błonie Phone: +48 (0) 22 731 61 10* Fax: +48 (0) 22 731 61 11 office.pl@boettcher-systems.com

Russia Boettcher CIS, LLC Moscow 125373 Phone: +7 495 662 30 93 Fax: +7 495 662 30 94 moscow@boettcher-systems.com

Sweden Böttcher Nordic AB PO Box 245, Brårudsallén, 68633 Sunne Phone: +46 (0) 565 165 70 Fax: +46 (0) 565 165 80 info@boettcher.se

Switzerland

Switzerland Böttcher Schweiz AG 6331 Hünenberg ZG Phone: +41 (0) 41 784 11 11 Fax: +41 (0) 41 784 11 12 office.ch@boettcher-systems.com

Singapore
Bottcher Singapore Pte. Ltd.
#05-126 Enterprise Hub, Singapore 608586
Phone: +65 64 63 21 31
Fax: +65 64 63 11 31
bottcher@singnet.com.sg

Slovak Republic Böttcher Slovenská republika, s.r.o. 85201 Bratislava Phone: +421 (0) 2 63 81 36 24 Fax: +421 (0) 2 63 81 36 25 bottcher@bottcher.sk

Spain Böttcher Ibérica S.A. 28810 Villalbilla (Madrid) Phone: +34 91 885 95 77 Fax: +34 91 885 92 68 ventas@boettcher-systems.com

Taiwan Böttcher Taiwan Co., Ltd. Chung-Ho City,Taipei Hsien Phone: +886 (0) 2 82 28 68 48 Fax: +886 (0) 2 82 28 68 49 barry.mao@boettcher.com.tw

Thailand
Bottcher (Thailand) Ltd.
Bangsamak, Bangpakong,Chachoengsao 24180
Phone: +66 (0) 38 57 16 00
Fax: +66 (0) 38 57 16 08
anurux.sasasmit@boettcher-systems.com

KB Thailand KB Systems (Thailand) Co., Ltd. Baanlane, Bang Pa-in,Ayutthaya, 13160 Phone: +66 (0) 35 31 42 23 Fax: +66 (0) 35 31 43 88 kan@kbsystems.co.th

Turkey
Boettcher Matbaa Malzemeleri Ticaret Ltd. Sti.
34217 Mahmutbey - Bagoilar, Istanbul
Phone: +90 (0) 212 659 93 38
Fax: +90 (0) 212 659 93 40 ozan.karaca@boettcher-systems.com

Ukraine Böttcher Ukraine 02156 Kiev Phone: +38 (0) 44 513 80 09 Fax: +38 (0) 44 513 98 38 office@bottcher.ua

U.S.A.
Böttcher America Corporation
Belcamp, Maryland 21017
Phone: +1 410 273 70 00
Fax: +1 410 273 71 74
david.dinsmore@boettcher-systems.com

U.S.A. Böttcher America Corporation Tipton, Indiana 46072 Phone: +1 765 675 44 49 Fax: +1 765 675 41 11 jeff.hoover@boettcher-systems.com

KB America, Inc. Eagle's Landing Business Park 1565 Jefferson Rd. Bldg. 100, Suite 160 Rochester, NY 14623 Phone: + 1 585 359 37 37 Fax: +1 5853593741 harmer@khamerica us bfarmer@kbamerica.us

