COATED CORRUGATED BOARD

For Undreamt-Of Advantages

HANS KOLB HKM
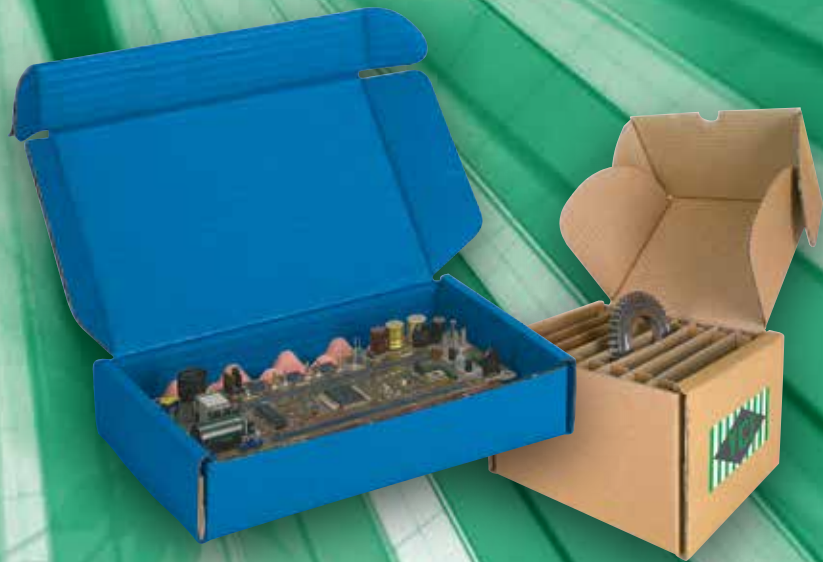
COATED PRODUCTS

better packaging...

SINCE 1933

... with the **KOLB** Group and **KOLB** CoatedProducts.
It's a claim that is also a promise. A promise that we'll provide an impressive variety of packaging solutions which are new every day.

It was back in 1933 that Hans Kolb first founded what has now become one of the most successful family-owned companies in the corrugated-board business. Corrugated board forms the basis of the packaging solutions from **KOLB**. Simply explained we are architects for your products „home". Your customized packaging solution will be created by our teams of **KOLB Design** and **KNAUER Design**, the R&D division of **KOLB** and **KNAUER**.

The convincing criteria for reaching your packaging goals is a modern production environment and, above all, the know-how of more than 1.200 committed employees.

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„Together with our customers we will
continue to respond to all the requirements
of the market and accompany them with
constant innovations.."

Alwin J. Kolb, Angela Kolb and Dr.-Ing. Bernhard Ruffing

Our passion is both developing and producing corrugated board packaging solutions. Our claim „besser verpacken!" is more than just saying KOLB packaging solutions are better. Instead KOLB offers a wide range of developing and logistical service. As a family-owned company based in one of the most beautiful parts of Southern Germany, the Allgaeu, we have been grown together with our customers over the past eight decades.

The Company

As early as in 1933 the basis for our success was established. Since then the KOLB Group has developed step by step to an internationally active company. We develop and produce packaging solutions and special products of corrugated cardboard.Our main duty is to face the market's new challenges quickly and flexibly.

Packaging needs to conform to various requirements. Here KOLB´s packaging development continues along a tailor-made path. According our motto "better packaging" the **KOLB Design** and **KNAUER Design** teams with its long experience utilizes the most modern creativity systems.

Numerous different solutions can be tested and created, which always gives you the advantage. Highest flexibility is our demand and at the same time our promise when it comes to the development of the perfect packaging solution.

As producer of environmentally friendly recyclable products, KOLB commits itself to a binding environmental policy to a great extent.

Our company has always given significant value to the gentle handling of raw materials as well as the application of ecological energy in modern production procedures.

Through our determination to protect the environment – binding for the whole of the company as well as for each individual employee – we adopted an exemplary position in the field of ecological protection.

In this context we produce, for example, our own energy in terms of electricity and steam at our papermill HANS KOLB Papier.

Sustainability Through Tradition

LONG BEFORE THE TOPIC OF SUSTAINABILITY WAS DISCUSSED IN DAILY MATTERS, IT WAS EXACTLY THIS COURSE OF ACTION WHICH WAS ROOTED IN OUR COMPANY DNA.

Among other things, we justify this with FSC-certified products that we manufacture at all KOLB and KNAUER sites. Also HANS KOLB Papier, the paper mill of the KOLB Group, also follows this self-image which has been by independent institutes.

Furthermore, we have always had a closed raw material cycle, especially in our own base paper production. After all, edge trimmings and die-cutting waste are directly recycled back into high-quality recycling liner and fluting, for which we also take the waste paper from regional suppliers.

But that's not all: our corporate culture with flat hierarchies and extremely short decision-making paths is also constantly moving us forward - without, however, disregarding what we have achieved and the experience that goes with it. The above-average length of service of our employees is impressive proof of this.

We are also aware of our social responsibility. As a sponsor of the Kinderbrücke Allgäu e. V., we have supported this regional organisation since its inception over 10 years ago. The board of trustees, which includes shareholders of our company, makes the decisions to help sick children and children in need. This is done unbureaucratically, with the necessary common sense or simply with the heart in the right place.

The majority of our production and administration sites are located in the Allgäu region. But where agriculture used to be the outstanding economic mainstay, today a balanced and at the same time specialised industry structure characterises the business location Allgäu. This also applies to the locations in Haiterbach and Dettingen / Erms.

Today we are proud of many long-standing business business relationships, which justify joint growth with our growth with our customers. We will continue to pursue this development pursue this development. After all, that is precisely what we mean by sustainability.

CORSTAT™
CORTRONIC®
COR*pro*TRONIC®

When there is a spark...
ESD Packaging-Systems

CORSTAT™
CORTRONIC®
COR*pro*TRONIC®

IEC and EN Standards

Standards play an important part in reducing uncertainties in the evaluation, selection and use of ESD protection programs and products. Today in Europe, the operating standard is IEC 61340-5-3.

The following applies: Only a very low-resistance, conductive protective layer meets the shielding requirements. **COR**STAT™, **COR**TRONIC® and our latest product. **COR**-*pro*TRONIC® thus protect against electric fields and ESDS during transport and shipping.

Electrostatic Discharge ESD

Voltage fields occur everywhere and at all times. The potential differences of these voltage fields are a danger for your electronic components and assemblies. Protect your high-quality electronics from ESD hazards.

Electrostatic Protected Area

All containers and work equipment in the ESD protected area (EPA) must have conductive equipment to enable controlled potential equalization or grounding.
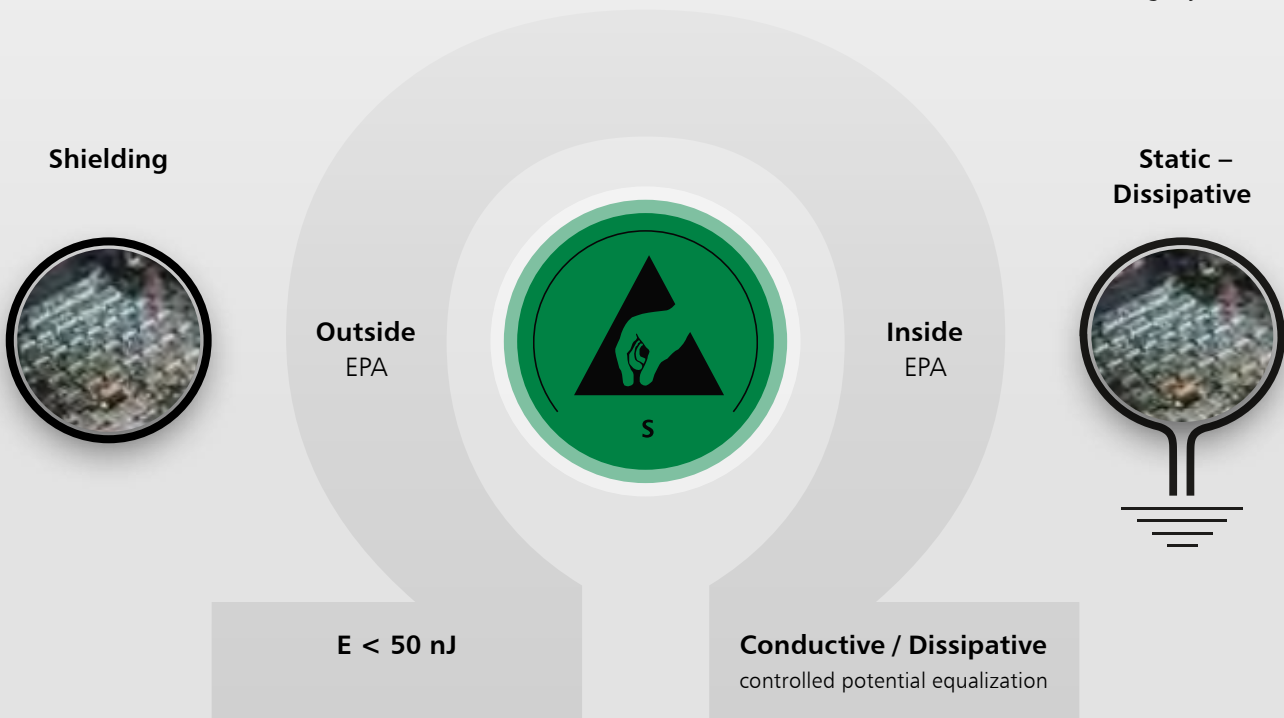
The Solution

Only the avoidance of large potential differences and the use of shielding layers prevent ESD hazards. Safe and controlled potential equalization: By using **COR**STAT™, **COR**TRONIC® and **COR***pro*TRONIC® with a surface resistance of 107 to 108 ohms, safe potential equalization takes place.
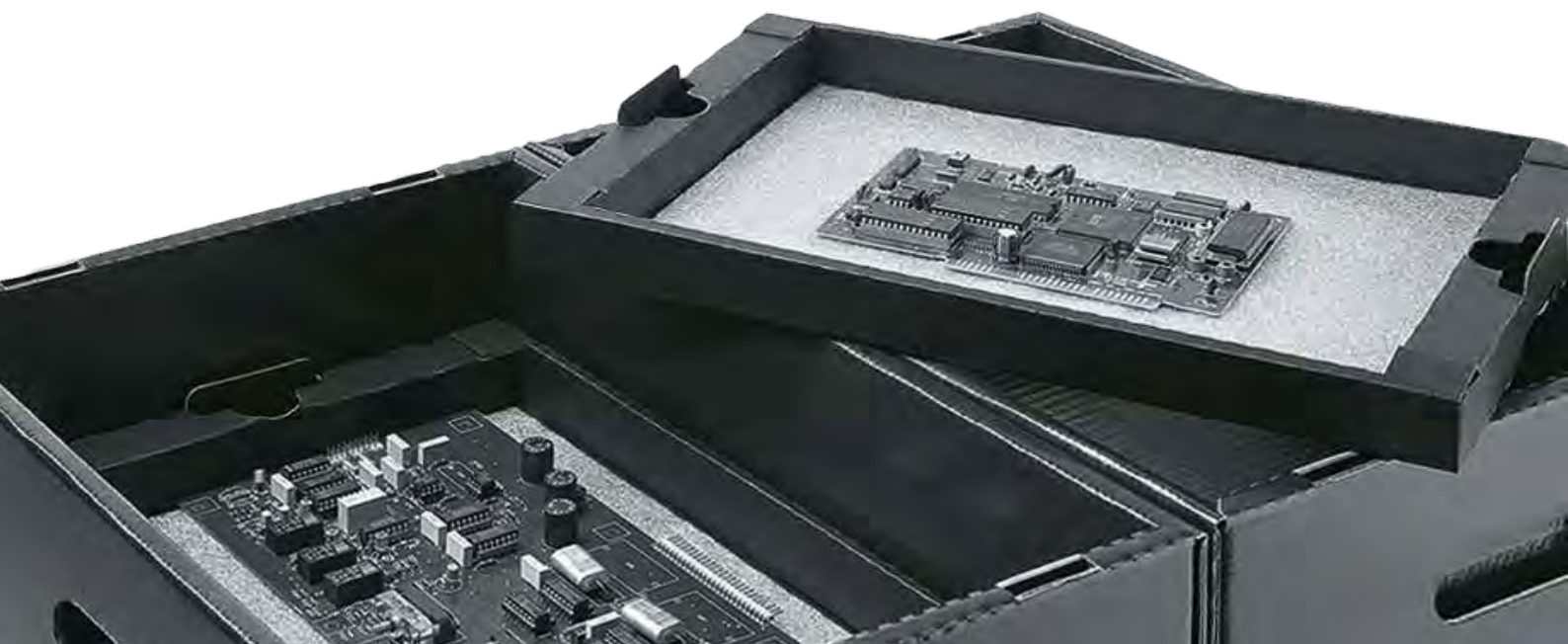
**Permanent conductive –
no time limit**

CORSTAT™, **COR**TRONIC® and **COR**pro**TRONIC®** for safe
use inside and outside of the EPA

CORpro**TRONIC®** $\approx$ 10^{7-8} diverting layer Ohm
2 x $<$ 10^2 shielding layer Ohm

Shielding

**Static –
Dissipative**

Outside
EPA

Inside
EPA

S

E < 50 nJ

Conductive / Dissipative
controlled potential equalization

Applications

CP - COATED PRODUCTS protect your elect-
ronic components. The ESD containers offer
special protective layers that balance electro-
static voltages and shield fields.

Thus, **COR**STAT™, **COR**TRONIC® and **COR-**
pro**TRONIC®** offer the full range to protect
your electronics from ESD hazards, now and
for upcoming standard regulations. For your
safety during packaging, transport, storage
and shipping.

CORpro**TRONIC®**
Conductive layer, sealed
Corrugated board
Disspative layer

CORTRONIC®
Flute
Static-dissipative
Shielding

CORSTAT™
Flute
Static-dissipative
Conductive layer
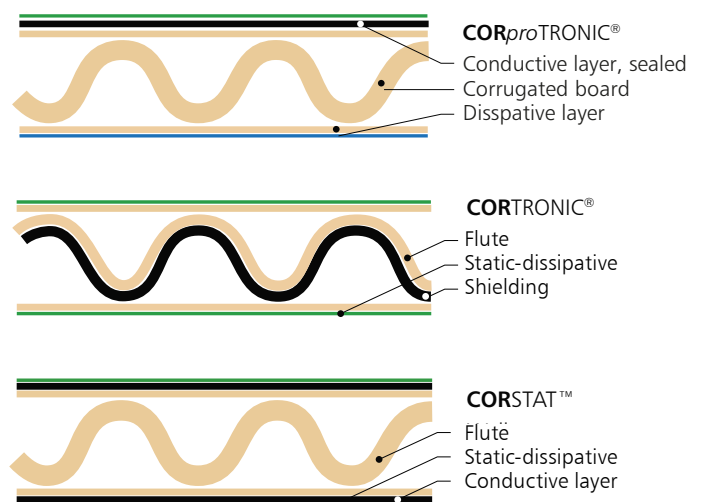
CORSTAT™
CORTRONIC®
COR*pro*TRONIC®

Technical Facts	**COR**STAT™	**COR**TRONIC®	**COR***pro*TRONIC®
Elektrisch			
Surface resistance (Ohm)*			
- Outside	10^{5-6}	10^{7-8}	$<2 \times 10^2$
- Flute		$<2 \times 10^2$	
- Inside	10^{5-6}	10^{7-8}	10^{6-7}
Controlled potential equalization	yes	yes	yes
Tribocharging	none	none	keine
Surface colours	Black	Blue	Outside: Black
			Inside: Blue
Energy Bag Test	< 50 nJ	< 10 nJ	< 5 nJ
ANSI / ESD STM 11-31			
IEC 61340-4-8**			
Chemical			
Corrosion	none	none	none
Galvanic potential	none	none	none
Recyclability	Resy 0062 / PAP20	Resy 0062 / PAP20	Resy 0062 / PAP20
Mechanical			
Resistance to abrasion	yes	yes	yes
(varnished surface)			
Printability	limited	limited	limited
Moisture	no limitation	no limitation	no limitation
	of the	of the	of the
	electrical features	electrical features	electrical features
Specifications			
Equivalent of	ANSI/ESD S541	ANSI/ESD S541	ANSI/ESD S541
	DIN EN 61340-5-3	DIN EN 61340-5-3	DIN EN 61340-5-3
No subject to RoHS-guidelines (2002/95/EG and 2002/96/EG)			
Weight example			
L 600 B 400 H 120 mm	0,58 kg	0,58 kg	0,58 kg

* Low-resistance SAW is measured with the strip electrode, high-resistance SAW is measured with the ring electrode.

** Reference: Test specimen size 250 x 200 x 13 mm, E-flute

COR proTRONIC®

The Environment

Reliable quality with a long service life:
All ESD containers are specially designed for multiple use. The shielding and dissipative function remains fully intact. The environmentally friendly ESD containers are fully recyclable.

CORSTAT™
CORTRONIC®
COR*pro*TRONIC®

Logistical requirements

Location and transport
Requirement due to
IEC 61340-5-3

Type of coating

Procurement

Product / Component

⌄ ⌄ ⌄

Transport Packaging

Transport Packaging

⌄ ⌄ ⌄

Inside an EPA & ESD-Area
(EPA = Electrostatic Protected Area,
ESD = Electrostatic Discharge)

» **conductive**
   1×10^2 Ohm $\leq R_S < 1 \times 10^4$ Ohm
or
» **dissipative**
   1×10^4 Ohm $\leq R_S < 1 \times 10^{11}$ Ohm

Outside an EPA / unmonitored areas
(regular properties)

» **conductive**
   1×10^2 Ohm $\leq R_S < 1 \times 10^4$ Ohm
or
» **dissipative**
   1×10^4 Ohm $\leq R_S < 1 \times 10^{11}$ Ohm
and
» **protection against discharge**
   < 50 nJ

⌄ ⌄

CORproTRONIC®   ($<2 \times 10^2$ Ohm incl. shielding)
CORTRONIC®   ($10^7 - 10^8$ Ohm incl. shielding)
CORSTAT™   ($10^5 - 10^6$ Ohm incl. shielding)
DISSIPATIVE   ($10^7 - 10^{11}$ Ohm)

CORproTRONIC®   ($<2 \times 10^2$ Ohm incl. shielding)
CORTRONIC®   ($10^7 - 10^8$ Ohm incl. shielding)
CORSTAT™   ($10^5 - 10^6$ Ohm incl. shielding)

⌄ ⌄

Ready-to-use packaging and containers out of our stock program (see following pages)
Your advantage: quick delivery, no tool-costs, small quantities possible

⌄

Individual Solutions   »

Please contact your dealer / sales consultant (see last page)
We are able to produce customized solutions regarding your wishes:
size, quantities, print etc.

CORSTAT™
CORTRONIC®

Containers For Shipment

Standard color: Blue

PCB Transit Boxes with printed warning

CORTRONIC® Assembled boxes lined with conductive profiled soft foam and conductive pin-insertion foam

Ref	Item-No.	Inner dimensions, mm		
01-TVS	10003499-0001	40	40	15
02-TVS	10003515-0001	60	60	24

CORTRONIC® Flat packed boxes, empty

Ref	Item-No.	Inner dimensions, mm		
05-TVS	10002882-0001	100	55	25
10-TVS	10002951-0001	183	127	38
15-TVS	10002952-0001	178	127	64
20-TVS	10002947-0001	190	135	40
30-TVS	10002953-0001	250	191	38
40-TVS	10002948-0001	250	191	64
45-TVS	10002954-0001	250	191	110
50-TVS	10002949-0001	267	216	64
55-TVS	10004138-0001	300	300	100
56-TVS	10004139-0001	340	300	100
57-TVS	10002955-0001	380	280	60
58-TVS	10002957-0001	380	250	120
60-TVS	10002950-0001	420	220	40
65-TVS	10002956-0001	420	220	65
70-TVS	10002946-0001	480	360	64

Inserts for PCB Transit Boxes

Profiled Foam Pink
Height 20 mm, dissipative pink,
dissipative function lasts up to 6 months

Ref	Item-No.
05-NS-AS	12000062
10-15-NS-AS	12000064
20-NS-AS	12000066
30-45-NS-AS	12000068
50-NS-AS	12000070
55-NS-AS	12000072
56-NS-AS	12000074
57-NS-AS	12000076
58-NS-AS	12000078
60-65-NS-AS	12000080
70-NS-AS	12000082

Profiled Foam Black
Height 20 mm, conductive,
conductive function: max. 5 years

Ref	Item-No.
05-NS-EL	12000063
10-15-NS-EL	12000065
20-NS-EL	12000067
30-45-NS-EL	12000069
50-NS-EL	12000071
55-NS-EL	12000073
56-NS-EL	12000075
57-NS-EL	12000077
58-NS-EL	12000079
60-65-NS-EL	12000081
70-NS-EL	12000083

Flatpac
dissipative, incl. fixation film,
dissipative function of foil: max. 6 months
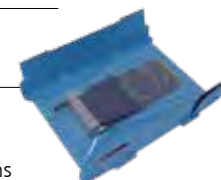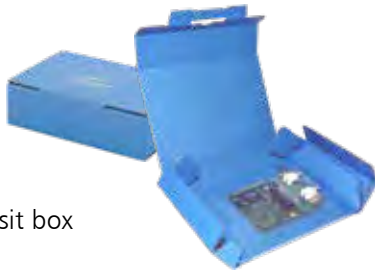
Ref	Item-No.
10-DFP	12000120
15-DFP	12000119
20-DFP	12000121
30-DFP	12000122
40-DFP	12000123
45-DFP	12000124
50-DFP	12000125
55-DFP	12000126
57-DFP	12000129

Flatpac Quick
mit printed warning
CORTRONIC® Transit box
incl. fixation film*

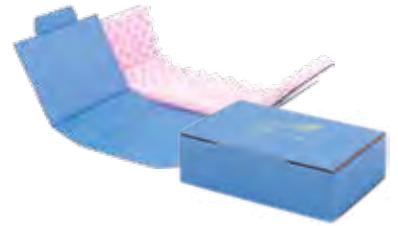| Ref	Item-No.	Inner dimensions, mm		
20-KC	12000130	125	107	25
30-KC	12000131	160	127	34
40-KC	12000132	235	175	45
50-KC	12000133	282	228	70

* Dissipative function of the film: max. 6 months

Foampac
with printed warning
CORTRONIC® Transit box with dissipative profiled foam*
(AS / 20 mm) or conductive profiled foam* (EL / 20 mm),
also available without foam (OS)

Ref	Item-No.	Inner dimensions, mm		
05-TCP-OS	10002993-0001	150	115	40
05-TCP-AS	10003144-0001			
05-TCP-EL	10003157-0001			
10-TCP-OS	10002994-0001	200	140	50
10-TCP-AS	10003190-0001			
10-TCP-EL	10003194-0001			
20-TCP-OS	10002995-0001	280	140	100
20-TCP-AS	10003196-0001			
20-TCP-EL	10003211-0001			

* Dissipative function of pink profiled foam: max. 6 months

Foampac E-Prom
with printed warning
CORTRONIC® Transit box
with conductive foam*:
PE - PE-foam (6 mm)
PE-N - PE-foam (6 mm) + profiled foam (10 mm)
N - Profiled foam (10 mm) fully covered
also without foam available (OS)

Ref	Item-No.	Inner dimensions, mm		
05-TEP-OS	10002922-0001	95	30	15
05-TEP-PE	10003249-0001			
05-TEP-PE+N	10003250-0001			
05-TEP-N	10003252-0001			
10-TEP-OS	10002842-0001	100	60	15
10-TEP-PE	10003257-0001			
10-TEP-PE+N	10003260-0001			
10-TEP-N	10003264-0001			
15-TEP-OS	10002894-0001	100	60	30
15-TEP-PE	10003265-0001			
15-TEP-PE+N	10003268-0001			
15-TEP-N	10003277-0001			
20-TEP-OS	10002996-0001	120	100	15
20-TEP-PE	10003281-0001			
20-TEP-PE+N	10003282-0001			
20-TEP-N	10003283-0001			
30-TEP-OS	10002997-0001	155	70	25
30-TEP-PE	10003284-0001			
30-TEP-PE+N	10003285-0001			
30-TEP-N	10003286-0001			

* conductive function: max. 5 years

CORSTAT™
CORTRONIC®

Container For Production And Storage
Outside of container is treated with water-/scratch-resistant coating

Standard color: Black

Reel Box **COR**STAT™ and **COR**TEC
Outside of container is treated with water-/scratch-resistant coating

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm			Reels Ø mm
10-CRB	10004713	380	176	100	398	193	104	180, max. 16 Reel
30-CRB	10005113	355	286	220	373	306	224	380, max. 5 Reel

Ref	Item-No.	Inner dimensions, mm			Reels Ø mm
10-CRM	10005114	330	319	220	380, max. 8 Reel

IC Bar Magazine **COR**STAT™
for IC bars, stackable, 5 slots

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-ICM-B+E	10004336-0001	336	586	35	399	599	39

Tube Box **COR**STAT™
and **COR**TEC
for IC bars, with printed warning

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
05-CTB-B+D	10004337-0001	600	95	45	610	113	51
10-CTB-B+D	10004335-0001	590	95	95	600	113	101

Storage Box, open
CORSTAT™ **and COR**TEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
05-CLBO	10002646-0001	180	62	65	202	70	70
10-CLBO	10002644-0001	285	150	110	305	159	115
15-CLBO	10002879-0001	292	109	122	313	116	127
20-CLBO	10002657-0001	580	65	65	600	73	66
30-CLBO	10002648-0001	592	109	122	611	117	127
40-CLBO	10002649-0001	592	153	70	611	161	75
45-CLBO	10002659-0001	590	200	180	609	209	185
50-CLBO	10002645-0001	615	100	130	634	108	135

Accessories For Production, Storage And Shipment

Dividing Sheets
for 48 / 50-TSC, CSC, MB and TAB
dissipative, black
with 2 bevelled corners

Ref	Item-No.	Dimensions, mm	
05-DZW	10002650-0001	357	246
10-DZW	10002656-0001	550	350

Adhesive Tape Black
needed for 30, 40, 45, 50-TSC and TAB

Ref	Item-No.	Length, m	Width, mm
10-KB	12000139	66	50

Label Holder
dissipative, adhesive, transparent,
further sizes upon request
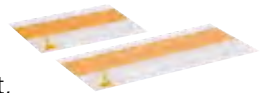
Ref	Item-No.	Dimensions, mm	
05-LT	12000134	140	100
10-LT	12000135	215	105

CORSTAT™
CORTRONIC®
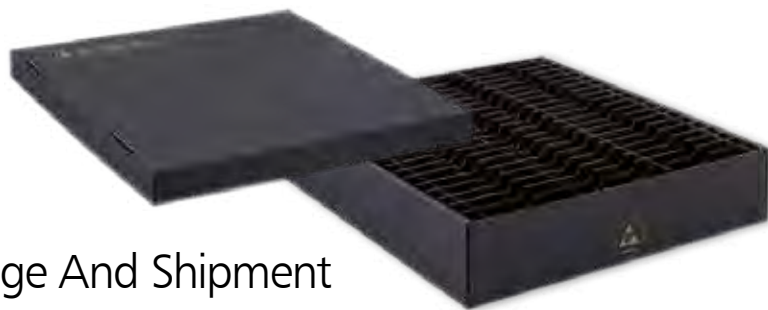
Container For Production, Storage And Shipment

In-plant handler CORTRONIC®
with printed warnung, black

The removal of length dividers offers the possibility to vary the compartment size:
Dividers dissipative, for 30, 40, 45 and 50-TSC adhesive tape is needed (sold separately)

Ref	Item-No.	Inner dimensions* L	B	H	No. of comp.	Comp size* L	B	H	No. of short div.	No. of long div.	Outer dimensions incl. lid* L	B	H
10-TSC	10003026-0001	270	169	195	12	130	24	195	1	5	297	181	204
10-TSCD	10003017-0001	287	177	50	6	265	24	195		5			
10-DSC-K	10002788-0001	392	169	(short divider)									
10-DSC-L	10002794-0001	392	276	(long divider)									
15-TSC	10004136-0001	372	388	84	60	109	18	84	19	4	400	400	100
15-TSCD	10004137-0001	390	396	35	40	165	18	84	19	3			
15-DSC-K	10002795-0001	84	372	(short divider)									
15-DSC-L	10002797-0001	84	388	(long divider)									
20-TSC	10004140-0001	386	386	176	30	110	30	175	4	9	415	405	190
20-30-TSCD	10003016-0001	401	401	60	20	168	30	175	3	9			
					10	340	30	175	2	9			
20-DSC-K	10002786-0001	358	383	(short divider)									
20-DSC-L	10002800-0001	266	385	(long divider)									
30-TSC	10002928-0001	386	386	358	18	168	35	350	8	3	415	405	365
20-30-TSCD	10003016-0001	401	401	60	9	340	35	350	8	2			
30-DSC-K	10002784-0001	624	385	(short divider)									
30-DSC-L	10002801-0001	718	383	(long divider)									
40-TSC	10003019-0001	424	272	281	22	178	18	280	3	10	450	290	290
40-TSCD	10003025-0001	438	286	60	11	365	18	280	2	10			
40-DSC-K	10002802-0001	280	269	(short divider)									
40-DSC-L	10002792-0001	523	421	(long divider)									
45-TSC	10003024-0001	493	390	166	20	178	45	166	9	3	510	410	175
45-TSCD	10003015-0001	505	406	50	10	360	45	166	9	2			
45-DSC-K	10002780-0001	333	390	(short divider)									
45-DSC-L	10002785-0001	333	493	(long divider)									
48-TSC	10003027-0001	562	355	150	44	123	24	150	5	10	595	380	160
48-50-TSCD	10003018-0001	580	375	60	33	165	24	150	4	10			
					22	250	24	150	3	10			
					11	515	24	150	2	10			
48-DSC-K	10002778-0001	150	352	(short divider)									
48-DSC-L	10002799-0001	150	560	(long divider)									
50-TSC	10002934-0001	562	355	329	44	123	24	325	5	10	595	380	335
48-50-TSCD	10003018-0001	580	375	60	33	165	24	325	4	10			
					22	250	24	325	3	10			
					11	515	24	325	2	10			
50-DSC-K	10002793-0001	660	352	(short divider)									
50-DSC-L	10002787-0001	508	560	(long divider)									

* Dimensions and sizes in mm

Tray CORSTAT™

Tray stackable, either with or without foam
OS = **without foam** oder AS = **dissipative** oder EL = **conductive**

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
05-CTR-OS	10003753-0001	297	230	28	351	246	31
05-CTR-AS	10003251-0001						
05-CTR-EL	10003253-0001						
06-CTR-OS	10002580-0001	297	230	55	351	246	60
06-CTR-AS	10003254-0001						
06-CTR-EL	10003258-0001						
07-CTR-OS	10002579-0001	305	243	40	358	259	43
07-CTR-AS	10003261-0001						
07-CTR-EL	10003263-0001						
20-CTR-OS	10002779-0001	499	330	28	550	346	31
20-CTR-AS	10003266-0001						
20-CTR-EL	10003267-0001						
25-CTR-OS	10002155-0001	499	330	40	550	346	43
25-CTR-AS	10002184-0001						
25-CTR-EL	10002185-0001						
30-CTR-OS	10002774-0001	499	330	70	550	346	73
30-CTR-AS	10003269-0001						
30-CTR-EL	10003270-0001						

EE-Tray with CORTEC
assembled with stacking plastic reinforcement

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
20-CTR-EE-OS	10003271-0001	496	327	28	550	354	35
20-CTR-EE-AS	10003272-0001						
20-CTR-EE-EL	10003273-0001						
25-CTR-EE-OS	10003516-0001	496	327	40	550	354	45
25-CTR-EE-AS	10003518-0001						
25-CTR-EE-EL	10003523-0001						
30-CTR-EE-OS	10003274-0001	496	327	70	550	354	75
30-CTR-EE-AS	10003276-0001						
30-CTR-EE-EL	10003280-0001						

CTR Partition Inserts (solid board) CORSTAT™

Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of dividers max.	Cell dimension min. mm	No. of cells max.
20-CTR-K	12000055	328	28	14	20	21	20 x 20 x 28	330
20-CTR-L	12000056	497	28	21	20	14		

CORSTAT™
CORTRONIC®

Container For Production, Storage And Shipment
Outside of container is treated with water-/scratch-resistant coating

Color: Black

Multibox
CORTRONIC® and **COR**TEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-MB	10003014-0001	565	365	109	591	391	114
20-MB	10002932-0001	565	365	209	591	391	214

Multibox Lid
CORTRONIC® and **COR**TEC

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
10-20-MBD	10002868-0001	593	393	50	603	397	53

Dimensions in mm   50

20

Multibox Partition Inserts
for 10-20-MB, dissipative
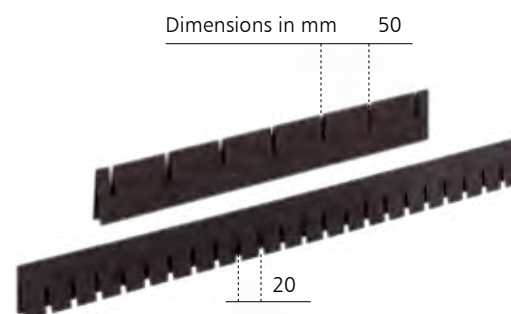
Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of dividers max.	Cell dimensions min. mm	No. of cells max.
10-MB-K	10002783-0001	352	100	7	50	22	50 x 20 x 100	138
10-MB-L	10002782-0001	552	100	22	20	7		
20-MB-K	10002798-0001	352	200	7	50	22	50 x 20 x 200	138
20-MB-L	10002781-0001	552	200	22	20	7		

For individual compartment layout, dividers are sold separately.

Customer-Store-Container
CORTRONIC® and **COR**TEC (can be used with and without lid)

Ref	Item-No.	Inner dimensions, mm without stacking lug			Outer dimensions, mm without stacking lug (without lid)		
03-CSC-BLACK	10003464-0001	362	251	60	389	278	67
05-CSC-BLACK	10003341-0001	362	251	100	389	278	107
10-CSC-BLACK	10003350-0001	362	251	139	389	278	146
15-CSC-BLACK	10003423-0001	362	251	220	389	278	227
16-CSC-BLACK*	10005121	362	251	300	389	278	307
17-CSC-BLACK	10003359-0001	551	362	60	578	389	67
19-CSC-BLACK	10003432-0001	551	362	100	578	389	107
20-CSC-BLACK	10003527-0001	551	362	139	578	389	146
30-CSC-BLACK	10003530-0001	551	362	172	578	389	179
35-CSC-BLACK	10003455-0001	551	362	220	578	389	227
36-CSC-BLACK*	10005120	550	365	300	578	389	307
40-CSC-BLACK*	10005187	550	365	400	578	389	410

*   for 16-CSC, 36-CSC and 40-CSC no dividers available

CSC Snap-on Lid
CORTRONIC®

Ref	Item-No.	Inner dimensions, mm			Outer dimensions, mm		
03-16-CSCD	10002655-0001	388	281	30	399	299	35
17-40-CSCD	10002653-0001	581	392	40	599	399	45

CORSTAT™
CORTRONIC®

Partition Inserts for CSC-Container

Standard color: Black

50

20 Dimension in mm
Slit size 2 mm
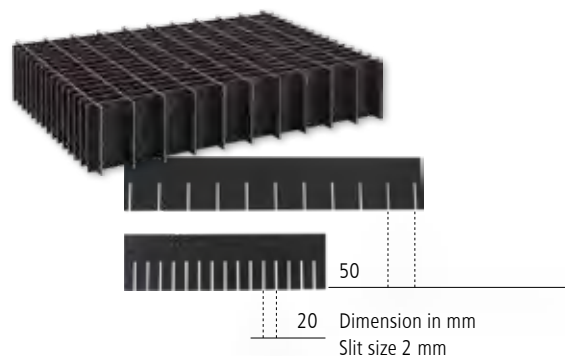
CSC Partition Inserts (solid board) CORSTAT™

Ref	Item-No.	Dimensions mm		No. of slots	Grid mm	No. of divdiders max.	Cell dimen-sions min. mm	No. of cells max.
03-CSC-K	12000030	249	60	10	20	6	50 x 20 x 60	77
03-CSC-L	12000034	360	60	6	50	10		
05-CSC-K	12000031	249	100	10	20	6	50 x 20 x 100	77
05-CSC-L	12000035	360	100	6	50	10		
10-CSC-K	12000032	249	139	10	20	6	50 x 20 x 139	77
10-CSC-L	12000033	360	139	6	50	10		
15-CSC-K	12000036	249	220	10	20	6	50 x 20 x 220	77
15-CSC-L	12000037	360	220	6	50	10		
17-CSC-K	12000039	360	60	15	20	11/24	50 x 20 x 60	160
17-CSC-L50	12000040	549	60	11	50	15		
17-CSC-L20	12000042	549	60	24	20	15	20 x 20 x 60	400
19-CSC-K	12000038	360	100	15	20	11/24	50 x 20 x 100	160
19-CSC-L50	12000041	549	100	11	50	15		
19-CSC-L20	12000043	549	100	24	20	15	20 x 20 x 100	400
20-CSC-K	12000044	360	139	15	20	11/24	50 x 20 x 139	160
20-CSC-L50	12000045	549	139	11	50	15		
20-CSC-L20	12000046	549	139	24	20	15	20 x 20 x 139	400
30-CSC-K	12000047	360	172	15	20	11/24	50 x 20 x 172	160
30-CSC-L50	12000048	549	172	11	50	15		
30-CSC-L20	12000049	549	172	24	20	15	20 x 20 x 172	400
35-CSC-K	12000050	360	220	15	20	11/24	50 x 20 x 220	160
35-CSC-L50	12000052	549	220	11	50	15		
35-CSC-L20	12000051	549	220	24	20	15	20 x 20 x 220	400

Dividers are available individually, thus individual compartment sizes are possible.
Already assembled sets available on request.

RSC / American Boxes
CORTRONIC®

Adhesive Film 10-KB is needed and sold separately (Page 17)

Ref	Item-No.	Inner Dimensions, mm			Inner Dimensions, mm		
13-TAB	10002927-0001	362	251	172	373	259	188
15-TAB	10002843-0001	362	251	220	373	259	236
30-TAB	10003146-0001	551	362	172	562	370	188
35-TAB	10003145-0001	551	362	220	562	370	236

Profiled Foam for CSC and TAB

dissipative pink* or conductive**

Ref	Item-No.	Dimensions, mm		
03 to 16-CSC NS AS	12000113	361	250	20
03 to 16-CSC NS EL	12000115	361	250	20
17 to 40-CSC NS AS	12000114	550	361	20
17 to 40-CSC NS EL	12000116	550	361	20
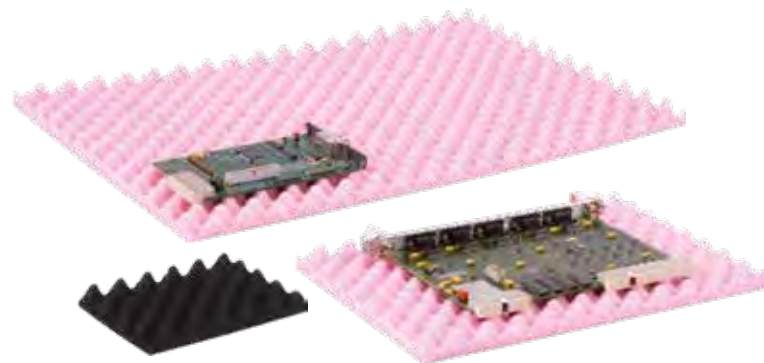
* Dissipative fuction of pink profiled foam: max. 6 Months

** Conductive function of black profiled foam: max. 5 Years

CORSTAT™
CORTRONIC®

Standard products made for quick supply

Custom-made items meet your special needs!

Some ESD sensitive products have special packaging or handling requirements. The versatility of **COR**STAT™, **COR**TRONIC® and **COR**proTRONIC® makes it possible for us to meet all your requirements, whether from stock or custom-made.
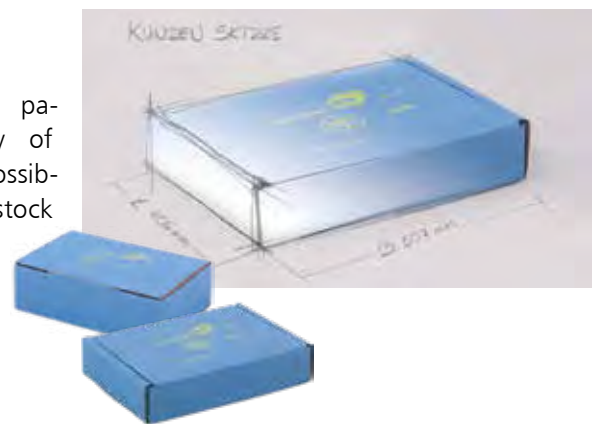
For shipping ESD sensitive parts

» EPROM packaging
» Dispatch boxes with profiled foam or film
» Constructive dispatch boxes
» **COR**PACK with profiled foam

For production, in-plant handling and storage:

» Stackable boxes
» Trays
» Reels, reel holders
» Storage boxes
» Partitioned boxes
» Multibox
» Fifo-Box

Worldwide availability!

CORSTAT™, **COR**TRONIC® and **COR**proTRONIC® are used over decades in all parts of the world. Just call us or visit us on the web to find your next dealer.

CORRUST®

Corrosion Protection With A Vision
Packaging systems with
integrated corrosion inhibitors

CORRUST®

VCI Corrosion Protection Included

Protection against rust

Rust destroys metal. Rust is generated when sulphur dioxide and chloride are oxidised – such as by exposure to humid air. Therefore corrosion protection particularly is important when transporting and storing ferrous and non-ferrous metals for longer periods of time.

○ VCI molecule
○ H$_2$O molecule
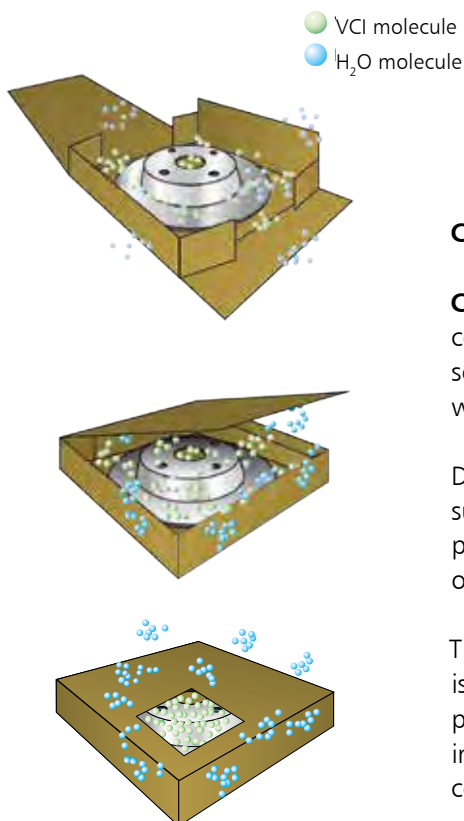
CORRUST® **– A forward thinking principle**

CORRUST® is a packaging system made from VCI-coated corrugated cardboard. This generously applied coating releases VCI molecules into the atmosphere inside the packaging – which subsequently comprises the actual corrosion protection.

Due to their polar character, these molecules attach to the surface of the metal products inside the packaging and thus prevent (passivate) the metal surface from reacting with oxygen.

The VCI coating applied to the corrugated cardboard is adjusted specifically to the packaging's relevant purpose and therefore ensures that the packaging's interior is always adequately saturated with VCI, and consequently provides long time protection for your product.

VCI: Volatile Corrosion Inhibitor

Packaging with VCI corrosion protection is extremely easy to use and gives you a real competitive advantage.

CORRUST® packaging systems ensure smooth logistics processes with a significantly improved way to maintain the quality of your corrosive products

Michael Hartmann
KOLB CoatedProducts®

Protecting the environment

Corrosion damage not only affects trade, but also has an impact on the environment. **COR**RUST® is 100% recyclable and therefore ideal for humans and the environment, but also a safe choice when it comes to logistic costs.
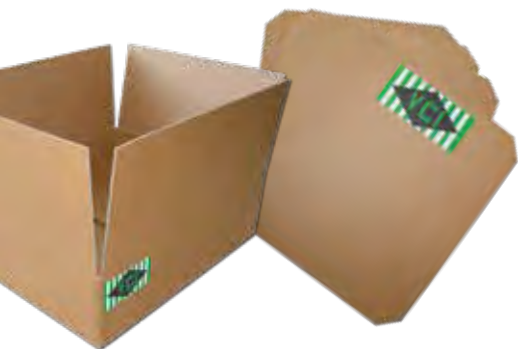
We are able to simulate your shipment process in all relevant climate conditions to assure the best possible protection of your products.

Wrap - unwrap - and not a spot of rust inside

Traditionally, anti-corrosion packaging for transporting and shipping metal products entails coating a product in grease or a similar corrosion-inhibiting substance, then wrapping it, and then removing the coating again – all of which takes up quite a lot of time, which, ultimately, can drastically impact on the entire logistics chain. However, **COR**RUST® anti-corrosion packaging now makes this labour-intensive process a thing of the past, does not require any investments in corresponding washing systems or solvents and has been reduced to just that: Wrap, unwrap – and not a spot of rust inside!

CORRUST®

Safety

Corrugated cardboard packages are hygroscopic, i.e. they attract and absorb moisture from the air. This is an extremely useful feature since the cardboard can thus be used to hold large quantities of VCI. The **COR**RUST® VCI coating then forms a perfect barrier between the corrugated cardboard and the product inside. CORRUST® packaging systems can also, on request, be supplied with a moisture-repellent coating on the outside, which makes the system even more efficient for transporting products under difficult climatic conditions.

Protection categories

E
For protecting ferrous metals, chromium, nickel, silicon aluminium alloys, partially galvanized steel, GGL and GGG

NE (C)
For protecting copper, brass, bronze, nickel silver, copper and manganese aluminium alloys

NE (S)
For protecting magnesium and magnesium alloys, silver and manganese

MM
For protecting combinations of ferrous and non-ferrous metals, zinc and manganese aluminium alloys, galvanized steel, zinc and copper materials
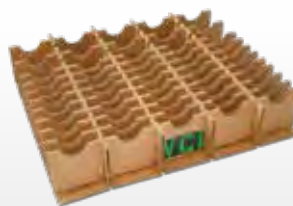
Example products
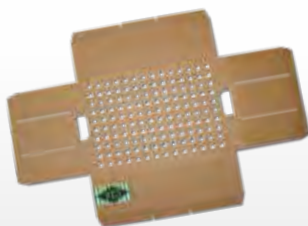
Pre-cuts / sheets   Die-Cuttings   Partitions / Inserts   RSC / American Boxes

SKINBOARD®
CORRUST **SKIN**BOARD®

Skin Tight Protection
Corrugated board for skin packaging

SKIN BOARD®
CORRUST SKINBOARD®

Product Safety And Outstanding Presentation.

With **SKIN**BOARD® tight skin foil wrapping, excellent fixture of the goods on the board is combined with attractive product presentation. The foil and the corrugated cardboard are sealed together by what is known as fibre cut.
This bonding method determines the characteristic properties of the packaging: When unpacking the product, a layer of paper remains attached to the foil, making the **SKIN**BOARD® packaging very easy to handle.

Thanks to the use of high-strength adhesive, even heavy parts can be safety fixed to the cardboard for attractive presentation and increased sales.

Versatile skin packaging
Strong, variable and functional: Introducing the professional packaging solution for your fragile products.

SKINBOARD® is a coated corrugated board with enhanced adhesion properties for skin film packaging

Options included as standard!

Release function:
For small fragile parts of low weight, the strength of the bond between the film and the cardboard must be reduced to a defined value. Special coats ensure that even the most delicate products can be properly positioned on the board and can be easily removed.

SKINBOARD® is suitable for packaging with skin foils made in PE and Surlyn®.

GUARANTEED QUALITY

As a product engineer for technically advanced components that are susceptible to corrosion, I trust CORRUST® **SKINBOARD packaging from KOLB.**

CORRUST **SKIN**BOARD®

CORRUST **SKIN**BOARD® products offer optimised protection against corrosion for sensitive products. The corrosion protection properties can be individually chosen, depending on the material properties of the packed goods.

We offer the following options:
» Steel/iron, chromium
» Brass, copper, bronze
» Magnesium and magnesium alloys, silver
» Multi-metal protection for products made from various metals

SKINBOARD®
CORRUST SKINBOARD®

The perfect solution

The coated corrugated cardboard of the **KOLB** CoatedProducts® range is the ideal material for protective and sturdy packaging for products that are easily damaged by impact. It offers a range of advantages and thus meets the requirements of customers in a wide range of industries.

With **SKIN**BOARD® we offer you an innovative product made in functional corrugated' board that can be printed with your individual designs..

SKINBOARD® and **COR**RUST **SKIN**BOARD® are suitable for combination with all current skin foils. For **COR**RUST **SKIN**BOARD® we recommend using VCI skin foils.

To develop your customised packaging solution, we need the following information:

» Properties of goods to be packed (material properties, size and weight)?
» Required skin format?
» Corrosion protection required?
» Quantity?
» Printing required?

If desired, we produce a sample packaging for your products free of charge. Why not visit our premises to discuss your ideas with us and to see how **SKIN**BOARD® is processed on our skin packaging machine?

Thanks to a skin tight film cover the product will be both packed and presented in an outstanding manner.

VCI – Volatile Corrosion Inhibitor

VCI stands for vapour and volatile corrosion inhibitor and describes a process by which molecules from the skin/VCI coating evaporate and saturate the air inside the packaging. Due to their bi-polar character, these particles attach themselves to the surface of the metal products and fill recesses, thus preventing chemical reactions with oxygen on these surfaces (passivation).

Particles lost through evaporation are replaced by evaporation of more VCI molecules from the coating, so that saturation of the air inside the packaging is ensured at all times.

Result: Dry preservation of the product, doing away with time-consuming and costly conventional preservation and cleaning measures.

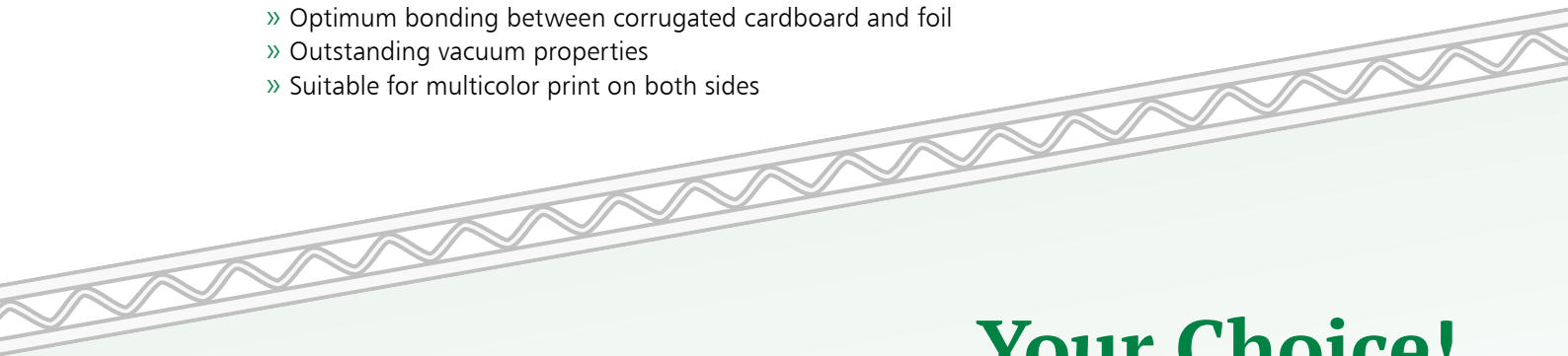# SKINBOARD®
CORRUST SKINBOARD®

Skin packaging – on corrugated cardboard carrier material

» **Advantages:**
» Highly dynamic protection for products that are sensitive to shock
» Excellent stability thanks to fluted profile
» No disintegration of the corrugated cardboard layers by the foil restoring forces (special gluing of the individual paper layers)
» Integrated corrosion protection (with **COR**RUST **SKIN**BOARD®)
» Recyclable (paper cycle)
»
» **The skin surface:**
» Optimum bonding between corrugated cardboard and foil
» Outstanding vacuum properties
» Suitable for multicolor print on both sides

Your Choice!

The size:	All skin sizes
The board type: (Scale 1:1)	E-Flute
	B-Flute
	C-Flute
	FE-Flute
	EE-Flute
	EB-Flute
	BC-Flute
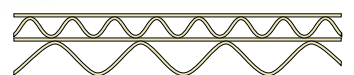
The skin layer:	**SKIN**BOARD® or **COR**RUST **SKIN**BOARD®
The finish:	Color / print pattern

Types, Sizes, Dimensions

CORRUST®
CORRUST® corrugated cardboard packaging systems can be supplied in all shapes and sizes with features and properties most suited to meet your specific requirements. There is only one thing they all have in common: A high level of corrosion protection!

CORRUST **SKIN**BOARD®
CORRUST **SKIN**BOARD® features fully integrated corrosion protection and therefore offers maximum protection for vacuum-packed products.

CORRUST® Flex
This flexible VCI corrugated cardboard has been specifically designed to allow products with irregular shapes to be easily packaged and offers them maximum corrosion protection.

All **COR**RUST® packaging systems are available in all of the most common DIN corrugated cardboard types and/or – depending on their intended use – can be made specifically and totally to your specifications.

Product information

The above information is correct to the best of our knowledge and reflects the latest **COR**RUST® developments. Depending on the product to be packaged, the basic features of the different **COR**RUST® packaging types may vary. We are therefore unable to provide a universal warranty for our products. However, we are always happy to conduct tests with our customers to ascertain the level of corrosion protection needed for specific packaging solutions.

Storage in cool and dry conditions mandatory. Please observe handling instructions.

KOLB CoatedProducts®

Grease & moisture:
We have
something against it!

Grease-resistant coating

Oily and greasy products such as ball bearings should be safely and securely packed throughout dispatch and storage. Thanks to the grease-resistant coating system from **KOLB CoatedProducts**® protection from grease is guaranteed throughout the entire duration of logistics and dispatch.

CORTEC Moisture-resistant coating

Moisture is the natural enemy of corrugated board packaging. But not where the moisture-resistant special coating on **KOLB Coated Products**® is concerned. Special hardened varnish creates a highly efficient barrier against any kind of moisture.

Wax coating

Whether as an insert or a complete export package, products can be sent on their way securely packed thanks to a special wax coating – even in hard climatic conditions.

Clever Coatings Due
To Your Demand

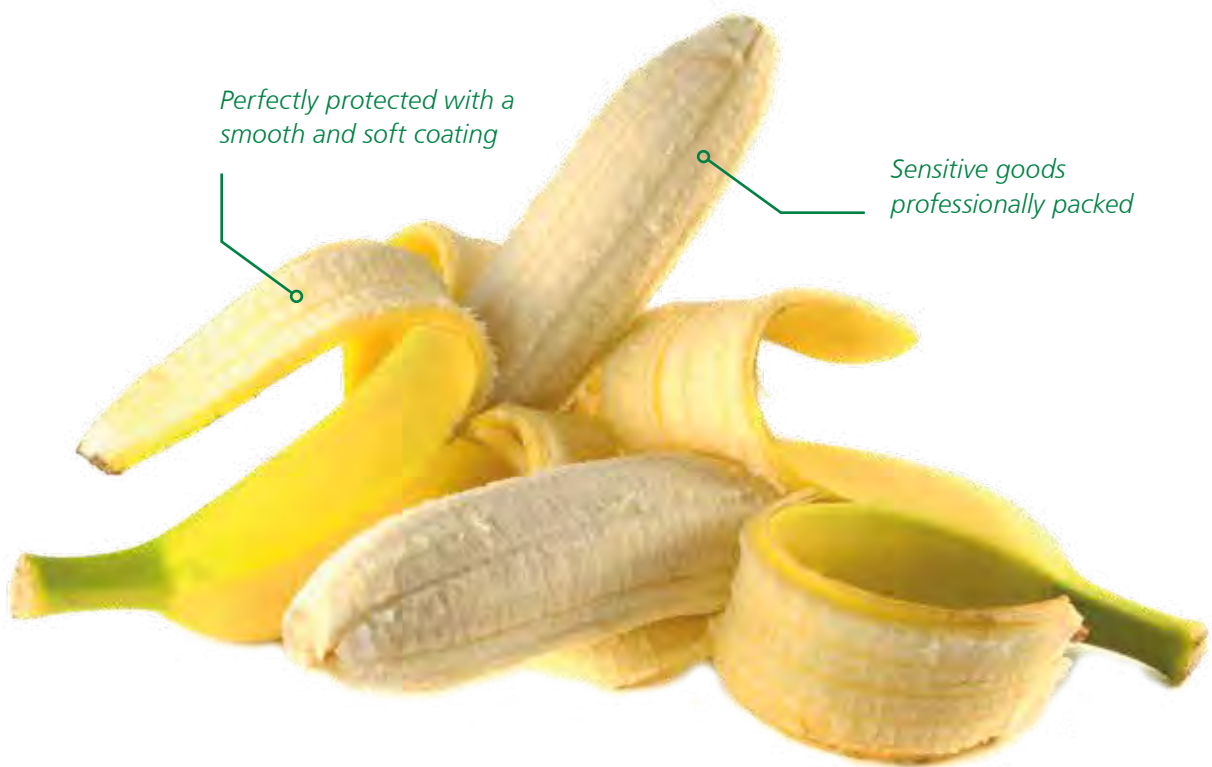**Stop & Go: non-slip and sliding coatings**

Packages or intermediate layers that have adhesive or gliding properties are used either to fix goods during transport or for the horizontal automatic loading of boxes and trays. Two different coatings provide different results, but they have one thing in common: process optimization and the simplification of your packaging process. Rub-resistant coatings also help you to send even rough items safely.

KOLB CoatedProducts®

Hard & Soft: Surface protection and secure transport for your product

Soft coatings serve to protect surface-sensitive goods. The slip-resistant function also has a positive effect on transport safety. Varnished and sensitive parts will be securely packed in a perfect manner.

Perfectly protected with a smooth and soft coating

Sensitive goods professionally packed

KOLB Logistics & Service

Service for advanced

The reputation of the **KOLB** Group is not only based on its high-quality products. But the quality approach also covers all aspects of delivery and just-in-time availability of our goods.

The **KOLB Logistics** department has at its disposal a vehicle fleet with more than 50 trucks, and can thus guarantee just-in-time delivery and efficient order handling.

We are furthermore glad to assist you in every demand regarding packaging automation, co-packing and many more topics of state-of-the-art packaging processes.

HANS KOLB HKM

COATED PRODUCTS

KOLB CoatedProducts
A Division of
HANS KOLB Wellpappe GmbH & Co. KG
Dr.-Lauter-Straße 2, D-87700 Memmingen
Tel. +49 8331 975-308
cp@kolb-wellpappe.com

COATED PRODUCTS HKM

FRANCE

COATED PRODUCTS HKM
6, rue d'Alsace
F-67140 BARR
Tél.: +33 388 08 10 38
Fax : +33 388 74 75 39
cguerat@coated-products.com

WWW.COATED-PRODUCTS.COM