Brantho-Korrux „3 in 1"

Corrosion resistance ▪ Metal protection ▪ Maintenance coating
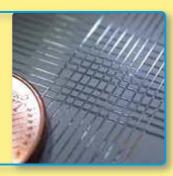
VOC O.K. less than 400 g/l

Adhesion

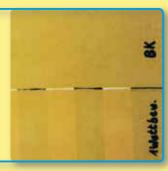Brantho-Korrux „3 in 1" shows excellent adhesion on aluminium in the crosscut adhesion test: Gt0. **Outstanding adhesion assures long term protection.**

Hiding power

Brantho-Korrux „3 in 1" (above) versus a competitive product (below) applied with the same wet film thickness. **„3 in 1" saves one coat and coating material.**

Elasticity

Even when substantially distorted Brantho-Korrux „3 in 1" simply does not flake (Ericson penetration test 10 mm). **Exceptional elasticity avoids premature damage.**

Corrosion resistance

Lower part not coated, upper part coated with Brantho-Korrux „3 in 1". After an extreme exposure of 720 hours salt spray "3 in 1" assures, also in the border zone, reliable protection against corrosion.

Durability

Brantho-Korrux „3 in 1" adheres well on iron, steel, flash rust, stainless steel, aluminium, copper, glass, zinc, many thermosetting plastics and many other substrates. It is primer, intermediate and finish in one.

Practical

Upon request available in **0,75 l.** ,**5 l.**, 10 l., 25 l. or 200 litre cans/drums. Available from stock in various colours.

Brantho-Korrux „3 in 1"

- ⊛ **most popular type with our clients**

- ⊛ **primer, intermediate and topcoat**

- ⊛ **high density eggshell finish, elastic**

- ⊛ **rapid drying, excellent edge covering and high filling power**

- ⊛ **suitable for brush, roller and spray application**

- ⊛ **on iron and steel, flash rust and manually prepared substrates**

- ⊛ **outstanding adhesion on aluminium, stainless steel, intact previous coatings and many other substrates**

- ⊛ **long term protection under severe conditions up to C5I and C5M (according ISO 12944/6)**

- ⊛ **offers economical advantages:**

  - reduced labour cost due to superior opacity
  - reduced coating consumption due to high solids
  - long lifetime expectancy due to excellent corrosion resistance
  - less official restrictions due to optimal environmental acceptability

Colours shown, being ink on paper may vary from the actual coating colours. They only show presently available standard colours. Almost any other colour can be manufactured; please contact your distributor for more details.

Answers to your questions

Coverage pays

Theoretically 1 litre is sufficient for 17.3 m² at a dry film thickness of 30 µm. Practically we recommend a higher d.f.t. for optimal corrosion resistance. 1 litre then will cover ca. 6 m².

Practical packaging?

Brantho-Korrux „3 in 1" is standard available in 5 litre cans with economy lid. Upon request it can be delivered in 10 l. cans, 25 l. pails or 0,75 l. cans.

Application?

Brantho-Korrux „3 in 1" can be applied by roller and brush directly from the can. For spray application Kombi-Thinner should be added sparingly (see product data sheet).

Tested and warranted quality

EMAS Certified; Reg. No. DE-150-00044.

Colours

Over 40 colours are directly available ex works. To assure every colour shows all original properties, there are several price groups.

The colours include following groups: RAL-colours, MB-colours, Chassis colours, DB and MIO-colours, municipal colours, building equipment colours, DIN-equipment colours, Marking colours, glitter silver and nature green were developed upon many requests.

All colours are free of zinc, lead and chromates and free of aromatic hydrocarbons and xylene.

| 1006 | 1007 | 1015 | 1021 | 2000 | 2004 | 2011 | 3000 | 3002 | 3009 | | 3020 | 5002 | 5007 | 5010 | 5012 | 5015 | 6005 | 6011 | 6018 | 7001 |

Worth knowing about Brantho-Korrux „3 in 1"

How long ...?

We can despatch 40 colours direct from stock in Germany, delivery time within 1 or 2 days.

Custom colours are available from 25 litres and are manufactured within **3-5 working days**.

The initial drying of Brantho-Korrux „3 in 1" is swift: touch-dry in **20-30 minutes**.

Dry to handle after **1-2 hours**.

Optimal adhesion and stackability is achieved **after 3 days** (other Branth-Coatings dry faster in this respect).

The **UV-resistance** of these colours is outstanding however it varies with colour (see PDS). It can be extended by applying a thin coat of Branth's Kristall-Glasur.

Lasting corrosion resistance depends importantly on the dry film thickness (see below). It is very long lasting, as proven by long field experience and laboratory tests.

How often...?

<u>One</u> thick coat of Brantho-Korrux „3 in 1" already offers good corrosion resistance.

<u>Two</u> thick coats of Brantho-Korrux „3 in 1" show a lifetime expectancy up to 15 years in a corrosive climate (C4).

<u>Three</u> thick coats of Brantho-Korrux „3 in 1" offer the highest possible lifetime expectancy in extreme environments (C5M and C5J).

<u>1½ coats</u> Brantho-Korrux „3 in 1" is the successful working method of our customers in daily practice (e.g. edges, welds, striping followed by a full coat).

<u>Instead</u> of Brantho-Korrux „3 in 1" a specially developed primer (specially for new galvanised), Branth's Adhesion Primer can be used, this primer also shows faster drying/curing.

Saving with Brantho-Korrux „3 in 1"

Every colour of Brantho-Korrux „3 in 1" has the highest opacity technically possible, **this saves** material and labour cost.

Every litre of Brantho-Korrux „3 in 1" offers high solids, this also **saves** material and labour cost.

All sorts of metal (and other substrates) can be coated with Brantho-Korrux „3 in 1", **this saves** different primers and avoids mistakes.

At every practical application temperature Brantho-Korrux „3 in 1" can be applied, **this saves** waiting and energy costs.

All sorts of application methods are possible: brushing, roller, spraying, dipping, and flooding; this simplifies and **saves**.

Every liquid remainder can be used again, as Brantho-Korrux „3 in 1" is a single component coating and can be used as primer or finish, **this saves** disposal, cleaning- and material cost.

All commercial available finishes can be applied over Brantho-Korrux „3 in 1" without the necessity of sanding, this avoids uncertainty and **reduces** preparation.

Excellent corrosion resistance and long service life **avoid** complaints, repair and other subsequent **costs**.

Brantho-Korrux „3 in 1" is delivered in litre quantities and not in weight "kilo" – this also **is an advantage**.

Properties like, no dangerous goods, low TLV values, low emissions, complies with VOC, **saves extra costs** for storage, application, disposal and monitoring.

The expected lifetime in the corrosion categories of DIN EN ISO 12944-6 are achieved by Brantho-Korrux „3 in 1" as follows:

Corrosion category / Lifetime expectancy	C1 very mild	C2 mild	C3 medium	C4 severe	C5J very severe Industry	C5M very severe Marine
S (up to 5 years)	1x	1x	1x	(1x)	(2x)	(2x)
M (5-15 years)	1x	1x	1x	2x	(2x)	(2x)
L (over 15 years)	1x	2x	2x	3x	3x	3x

1x means one coat of 80μ
2x means two coats of 80μ each (= 160μ)
3x means three coats of 80μ each (= 240μ)
Results (between brackets) are derived from tests acc. ISO 12944-6

7011 | 7023 | 7032 | 7035 | 8016 | 9001 | 9002 | 9005 | 9006 | 9007 | 9010 | 9011 | MB3575 | MB7350 | IC105 | BK320 | BK632 | DB703 | DB 601 | BK 610

All Brantho-Korrux-coatings offer you common advantages

reduced labour cost
due to superior hiding power

reduced material consumption
due to high solids

long lifetime expectancy
due to excellent corrosion resistance

fewer official conditions
due to optimal environmental acceptance

All Brantho-Korrux-coatings offer you further advantages

» fast drying, high filling power, very good edge covering, versatile, outstanding adhesion

» very easy to use: brush, roller, spray

» recoatable at any time: can be used as primer, intermediate and finish/topcoat

» upon request available in containers from **0,75 l**, **5 l.**, 10 l., 25 l. or 200 litre drums, various glosses and many colours

Other Brantho-Korrux-coatings offer

» **„APS"**
Branth's Adhesion Primer Special, flat primer for all sorts of substrates, adheres very well to zinc, aluminium, various plastics, etc.

» **„Rust-Primer-Special"**
High build, rust penetrating primer and filler for use on very rough and/or badly corroded surfaces

» **„nitrofest"**
flat, easy to sand, dries very rapidly, for steel and also manually prepared

» **„ecopakt"**
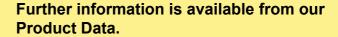practically solvent free, slightly lower filling power, dries/cures rapidly

» **„2-Kompo"**
for all metals, primer/topcoat, universal recoatable, rapid curing (at 20º C), semi-gloss

» **„S-Glasur"**
high gloss finish for brush, roller and spray application, low odour, good levelling/flow

» **„Robust-Lack"**
glossy finish, flexible, fast drying, preferably brush or spray application

The high-quality corrosion resistance
of Brantho-Korrux is based on the <u>joint</u> effect of:

» **Electrochemical corrosion protection** by up-to-date lead-, chromate- and zinc free pigments

» **Barrier effect** by flake shaped inert pigments

» **Substrate wetting** by selective choice of binders and solvents

» **Adhesion** to the substrate by designated binders, solvent and pigment combinations

» **Edge covering** by high filling capacity, rapid drying, adjusted surface tension

» **Penetration** by designated molecule and particle size of the raw materials

» **Flexible coating film** reduces damages caused by flaking and undercutting

Further information is available from our Product Data.

Tradition and innovation for (state of the art) protective coatings

Since 1887 we have manufactured corrosion protective coatings, since 1956 high solid and lead-free. Since 2003 we manufacture in our new premises under most the modern technology, innovative, economically, in Glinde Germany (near Hamburg).

For the customers' benefit the manufacturer seeks constant improvement to high-solid coatings. This means lower labour costs for the customer, less material consumption, better hiding power, better durability, and less solvent emission for the applicator.

You comply with the new European legislation, when using proven Brantho-Korrux-Quality products. For example, you will fall below the EC-VOC emission values in the general application areas.

We assure you practical products: long years of experience, continuous improvement, extensive testing, high quality raw materials, careful manufacturing, state of the art management systems and continuous dialogue with our customers.

BRANTH-CHEMIE
A.V. Branth
gegr. 1887
Glinde/Hamburg