

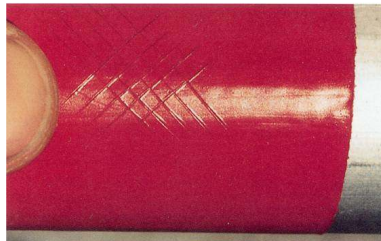
# Brantho-Korrux

## "3 in 1"

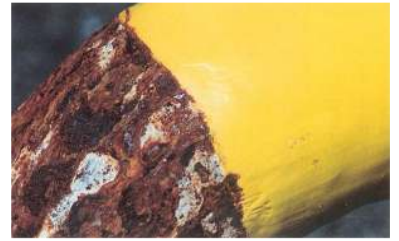
**Corrosion resistance \* Metal protection \* Maintenance coating**

*Mild steel, aluminium, galvanised, stainless steel, plastics, cladding, concrete ...  
almost all substrates can be painted with this material.*

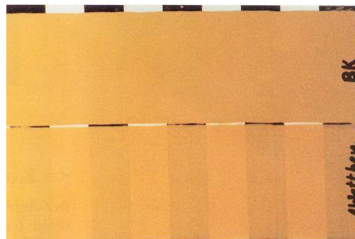
**Adhesion,**  
Brantho-Korrux "3 in 1" shows excellent adhesion on aluminium in the crosscut adhesion test: Gt0., **Outstanding adhesion assures long term protection.**



**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.

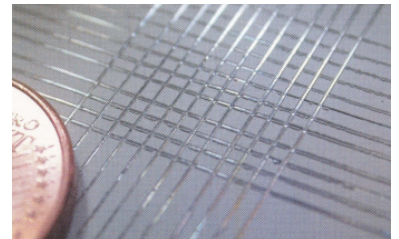


**Hiding power**  
Brantho-Korrux "3 in 1" (above) versus a competitive product (below) applied in the same wet film thickness. **"3 in 1" saves one coat and coating material.**

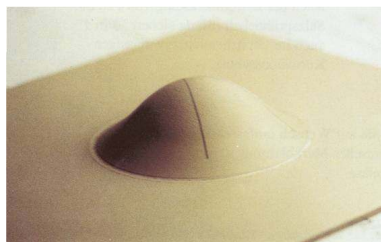


BK 3 in 1  
Other pdts..

**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.



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



**Practical**  
Upon request available in 0,75 l., 5 l., 10 l. or 25 l. cans/drums. Available from stock in various colours; = **standard packaging size.**



## Brantho-Korrux "3 in 1"

- most popular type of 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, on flash rust/manual prepared substrates as well,
  - 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
    - fewer official restrictions due to optimal environmental acceptability
    - long lifetime expectancy due to excellent corrosion resistance
- low odour solvents
  - excellent chemical resistance
  - single pack coating, easy to apply,
  - suitable for brush, roller and spray application from -10°C up to 30°C
  - may have a hardener added to give additional abrasion resistance; ideal for floors

## Colours?

Brantho-Korrux "3 in 1" is available in 40 standard colours direct ex works. There are several price-groups as every individual colour needs optimal hiding power and all original properties

Upon request we are happy to send you an original colour card.

The colours are to be specified as follows:

RAL-Colours – Building equipment colours – chassis colours – MB-colours – MIO-colours – Marking colours – German Railway colours – DIN equipment colours – etc.

All colours are free from zinc, lead and chromates, also free from aromatic hydrocarbons (xylene, etc.)

## 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, at 5° C up to 30° C., from -5° C. up to 5° C. and spray application (**some**) Kombi-Thinner should be added sparingly (see product data sheet).



## Quality?

**Our QC-System is TÜV controlled, the manufacturing is according to ISO 14001.** Brantho-Korrux "3 in 1" is certified with the German Ü-Zeichen, means suitable for all sorts of construction/building purposes.

## 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 stack ability is achieved after 3 days (other Branth-Coatings dry faster in this respect).

The UV-resistance of these colours is outstanding however 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 long field experience and laboratory tests.

## How often?

One thick coat of Brantho-Korrux "3 in 1" already offers good corrosion resistance.

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

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

1½ coats 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).

Instead 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.

## Costs?

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 single component and can be used as primer or finish, this saves disposal, cleaning - and material cost.

All commercially available finishes can be applied over Brantho-Korrux "3 in 1" without the necessity of sanding, this avoids uncertainty and 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 such as: no 'dangerous goods', no danger symbols, lowest TLV values, low emissions, complies with VOC regs., 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:

lifetime expectancy \ corrosion category	corrosion category					
	C1	C2	C3	C4	C5J	C5M
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 (= 160 µ)

3x means three coats of 80µ each (= 240 µ)

Results (between brackets) are derived from tests acc. ISO 12944-6

- **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.
- **UV-absorbers** increase the durability and prevent premature fading and embrittlement.

Other Brantho-Korrux types offered are:

Branth's Adhesion Primer Special, flat primer for all sorts of metal, adheres very well to zinc, aluminium, etc.  
 Brantho-Korrux "nitrofest" is flat, easy to sand, dries very rapidly, for steel, also manually prepared;  
 Brantho-Korrux "ecopakt" is practically solvent free, slightly lower filling power, dries/cures rapidly;  
 Brantho-Korrux "2-Kompo" offers very fast curing, more complicated application (2-pack);  
 Branth's Robust-Lack, as flexible as "3 in 1" , glossy surface, not suitable for roller application;  
 Branth's S-Glasur, glossy topcoat for brush, roller and spray, ideal on "nitrofest"

## All Brantho-Korrux types and colours offer you 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 limits

due to optimal environmental acceptance

### Further advantages:

- fast drying, high filling power, very good edge covering, versatile, outstanding adhesion
- very easy to use: brush, roller, spray
- always recoatable: 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

Further information is available from our Product Data Sheet, also a colour card is available upon request.

## 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, and since 2003 we manufacture under most modern technology, innovative and economical, in our new premises in Glinde, Germany (near Hamburg).

For the customers' benefit Branth Chemie seeks constant improvement; high-solids coatings without danger symbols mean lower labour cost for the customer, less material consumption, better hiding power and less solvent emission for the applicator, better durability and lower labour cost.

## VOC compliance

You comply with the new European legislation, when using proven Brantho-Korrux Quality products. For example; **from the beginning of 2007 you will fall below the EC-VOC emission values with 50-65%** in the general application areas.

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



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