

Technical Information
and
Application-instructions
for

**Branth's water-based primers
and topcoats**

BRANTHO-KORRUX "ecopakt"

eggshell finish
dirt repellent primer and topcoat
corrosion resistant
versatile application

BRANTHO-KORRUX "ecotop"

high-gloss topcoat
easy to apply
excellent weather resistance
over Brantho-Korrux or other primers

BRANTHO-KORRUX "ecobase"

fast drying
universal recoatable
flat primer
for iron steel and aluminium

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Technical Data

	<u>Brantho-Korrux</u> <u>"ecopakt"</u> primer and topcoat eggshell	<u>Brantho-Korrux</u> <u>"ecobase"</u> primer and filler flat	<u>Branth's</u> <u>"ecotop"</u> gloss
Viscosity:	thixotropic	thixotropic	120 sec./ DIN 4 mm
Thinner:	water	water	water
Density:	ca. 1,4 (depends on colour)	ca. 1,5 (depends on colour)	ca. 1,2 (depends on colour)
Solids:	ca. 60 wt. % ca. 40-45 vol. %	ca. 60-65 wt. % ca. 40-45 vol. %	ca. 50-55 wt. % ca. 40-45 vol. %
Solvent content:	ca. 2,5% (wt.)	ca. 2,5% (wt.)	ca. 3,5% (wt.)
Dry film thickness per coat:	ca. 40-60 µm	ca. 40-50 µm	ca. 40 µm
Coverage: - theoretical at 40 µm dry: - practical per coat:	10,5 m² / l. 5-6 m² / l.	10,5 m ² / l. 5-6 m ² / l.	10,5 m ² / l. 8 m ² / l.
Drying times (20°C 60% rv): - touch dry: - dry to handle: - completely dry:	ca. 30 min. 60-90 min. ca. 1 day	ca. 15 min. ca. 40 min. ca. 16 hours	40-50 min. ca. 90 min. ca. 20 hours
Storage stability:	6 months free from freezing	6 months free from freezing	6 months free from freezing
Minimum tenability:	The tenability indication on the cans implies the warranted tenability in unopened, original cans, in a cool, well-ventilated dry storage area. The indicated tenability is no date of maturity , under normal conditions the coating may be used up to 5 years without loss of quality. The indicated minimum tenability should especially help to use the older cans first. As long as the coating material can be stirred homogeneously, she can be applied without problems.		
Transport stability:	up to max. 3 days at -10°C is no problem	up to max. 3 days at -10°C is no problem	up to max. 3 days at -10°C is no problem
Colour stability up to: (cured film)	ca. 80°C.	max. 100°C.	ca. 80°C.

Product properties

Brantho-Korrux "ecopakt"

Water-based, eggshell finish, primer/topcoat, showing excellent corrosion resistance, weather resistance, excellent filling properties and hiding power, can directly be recoated with itself, after curing recoatable with all commercial coatings and paints or, when high gloss is required, with "ecotop".

Brantho-Korrux "ecobase"

Water-based, flat, 1-component coating offers long-lasting corrosion resistance. Easy to apply, fast drying and curing, after curing this primer can be over-coated with all one- and two component coatings from Branth's delivery program.

Branth's "ecotop"

Glossy, water-based topcoat, universal application, excellent filling properties and hiding power, excellently recoatable with itself, fast drying, excellent weather resistance. (in order to obtain better surface hardness a special activator is available, however this activator can only be used at temperatures above 20°C)

These three qualities and all colours are intermixable in any ratio.

Application instructions

Preparation:

When applying water-based coatings proper degreasing is extremely important. Brantho-Korrux "eco" should be applied on an intact substrate only; very thorough manual rust removal (St 3) is sufficient. Application on a slightly moist substrate, e.g. after wet blasting, is possible, "ecotop" can only be applied on a primed substrate.

Consumption:

Practical consumption from 0,15 up to 0,2 l. per m².

Brush application:

Directly from the can. Use synthetic brushes only

Roller application:

Directly from the can. A short nap (mohair roller) is recommended.

Spray:

In general directly from the can. Electrostatic spray only with adapted equipment.

Generally, spray application can be done directly from the can (undiluted). Pressure-cup air-atomised equipment is recommended. If not possible dilute the material sparingly with water As per specification at foot.

	Air atomised 4-5 bar		Airless 150 bar orifice size 0,28-0,48 mm = 0,011-0,019" ∠ 40°	Airmix 90/3 bar orifice size 0,28-0,43 mm = 0,011-0,017 ∠ 40°	HVLP 5 / 1 bar nozzle 1,6-2,8 mm
	nozzle 1,2-1,7	nozzle 2,0-2,5			
Brantho-Korrux "ecopakt"	0-5% water	0-3% water	0-3% water	0-3% water	0-3% water
Brantho-Korrux "ecobase"	0-5% water	0-3% water	0-3% water	0-3% water	0-3% water
Branth's "ecotop"	0-10% water	0-5% water	0-3% water	0-5% water	0-5% water

Drying times: The actual drying time for water-based coatings depends strongly on the relative humidity, temperature and ventilation. After 5 min. flash-off time, forced drying with circulating air at 40° C and 40% relative humidity (after ca. 15 min. dry to handle) is possible. drying with dehumidified air is more effective than elevated temperatures *For interior application at low temperatures good ventilation or dehumidification is essential.*

Recoatable: All qualities of these products can be recoated at any moment in time with itself or another

product from this water-based range of products. Full drying of a complete system takes at least 4 hours. "ecobase" can be recoated with 1- and 2 component coatings after at least 16 hours, all other "eco" coatings need to dry at least one week. Before recoating sanding is not necessary.

Equipment cleaning: Clean equipment directly after use with water. Rinsing water (spray equipment cleaning) can be used for dilution later. If dried up use Branth's Spezial-Thinner.

Application references

Brantho-Korrux "ecopakt"

is applied as primer and topcoat on iron, steel and aluminium. Difficult or heavy exposed objects need two coats, ideal for interior application and application in paint shops.

Objects: steel constructions for buildings, vehicle chassis, containers, transport frames, machines, lampposts, traffic light masts, etc.

Brantho-Korrux "ecobase"

is applied as primer on iron, steel and tin-plate, both as an adhesion primer or as a filler, e.g. on abraded previous coatings. Due to the extremely low solvent content the product is ideal for interior application and application in workshops.

Objects: steel constructions for buildings, vehicles, rail vehicles, transport frames, machines, fences, gates, doors, pipes, etc.

Branth's "ecotop"

Is applied as topcoat on top of "ecobase" and "ecopakt" or other primers. The application of this product is ideal in interior areas and/or workshops.

Objects: commercial vehicles, rail vehicles, transport frames, machines, fences, gates, doors, pipes, etc.

For light to moderate exposures Branth's water-based "eco" coatings can also be used on wood, aluminium, concrete and bricks.

Interior application

During the application and drying of water-based products (evaporation of water) the relative humidity might increase considerably, affecting further drying of the product. Please ensure sufficient ventilation or dehumidification during and after application of Branth's "eco" products.

Ecological review

Detailed information, regarding personal protection, environmental friendliness, waste disposal etc.; see safety information sheet.

These coatings do not contain toxic, heavy metals and no PVC. Due to the extreme low solvent content, minimal emissions are warranted. High solid content and long term protection warrant optimal savings of raw materials. For application and equipment cleaning purposes no organic solvents need to be used. As this material can be applied without activator, application can take place without the production of chemical waste.

Packaging

All 3 coating types are delivered in 5 l. cans with Branth's economy lid. 750 ml cans are available in cartons with 6 or 12 pcs. Upon request the materials can be delivered in 10 l. or 25 l. canisters.

Colours

Some standard colours (see valid price-list) are available from stock. Custom colours are available from 30 l. per order, production takes 5 working days.

TÜV certification

Brantho-Korrux "ecopakt", as well as Brantho-Korrux "ecobase" top-coated with Branth's "ecotop", are successfully TÜV-tested and are foreseen with the Certificate and additional text "corrosion resistant – free from heavy metals-free from mineral acids".

These corrosion resistant coatings meet the requirements of the following test specifications: TÜV PS PPP 52016/07.96. The products were tested according DIN 50017, DIN 50021, DIN-EN-ISO 8565, DIN-EN-ISO 2409, DIN 53210, RAL-UZ-18.

The information herein contained is based on our present knowledge. It is based on practical experience during many years and is composed carefully. The technical information is average, and values do not impose any liability. As the application of this material in any individual case is beyond our control we cannot be held liable.

This data sheet is a translation of the German sheet VB/Eg * 2/2000, translation by Jos van Ochten for BrabCoat, Roosendaal, The Netherlands.