BIPOX 2C HS PRIMER IM-75 HB

2C high solid anti-corrosion epoxy primer

Description

Bipox 2C HS Primer IM-75 HB [6144] is a low-solvent, 2 component high solid corrosion resistant adhesion primer, based on an epoxy/modified synthetic resin-binder combination.

Suitable for applications with permanent or variable water or fluid exposure (boats, pools, tanks, etc.) as well as underground preservation (pipes, foundations, scaffolding and sheet piling).

Properties

- Very strong 2 component high build adhesion primer
- Excellent active anti-corrosive properties
- Adheres to steel, non-ferrous metals, concrete and polyester
- Easy to apply in a high film thickness with a brush, paint roller and sprayer.
- High filling capacity
- Very closed structure, chemical resistant
- Suitable as a primer for a variety of industrial objects/systems, including below the waterline (fresh and brackish water).
- Available in the standard colours of black and grey

Applications

As a primer for steel and non-ferrous metals for a range of heavier industrial applications, above and below ground, in (semi) permanent contact with (liquid) substances such as water (fresh/brackish), various oils and greases and other chemicals (see resistance list).

Substrates

- Blasted steel (SA 2.5 blasted or surface preparation grade ST 3)
- Concrete
- Galvanized steel
- Aluminium
- Miscellaneous non-ferrous metals
- Polyester

Technical data

(mixed product at 20°C)

Finish	: silk gloss
Gloss level (60°)	: not determined
Colour	: black and grey
Theoretical consumption	: approx. 6.1 m²/ltr. at 120 µm dry film thickness
Specific gravity	: 1.49 g/ml (mixed product)
Solids content	: 75% by volume
Flash point	: 24°C
Application conditions	: min. 5°C / 80% RH
VOC content	: 212 g/l
Shelf life in can	: 12 months in original unopened packaging (5-30°C). Frostproof storage.

APPLICATION INSTRUCTIONS

Pre-treatment

The surface needs to be entirely clean, dry and degreased. Old, intact paint layers need to be sanded well. Pre-treatment depends in part on the substrate but should always be done in such a way (cleaning, degreasing, blasting/mechanical sanding, etc.) that a solid and suitable substrate is obtained that is suitable to be painted. See also 'Pre-treatment'

Mixing ratio hardener

Hardener	: Bipox 2C Hardener [6144]
Mixing ratio	: 3:1 (base:hardener) by volume
Pot life	: approx. 1 hour at 20°C

Note! Carefully mix basecoat and hardener mechanically in the correct ratio to reach a homogeneous mixture. Due to quality loss, do not use product after the pot life has expired.

Processing method

Airless, airmix, HVLP, airspray, brush and paint roller

Viscosity and thinning

BICCS Thinner 0104 [9164]
Max. 15-20% - airspray
Max. 0-5% - Airless/brush/paint roller

Airspray/HVLP

Nozzle	: 1.5-2.5
Pressure	: 3 to 5 bar
Viscosity	: 20-30 sec, DIN cup 4

Airless/Airmix

Nozzle	: 0.018"- 0.021"/60
Pressure	: 250-300 bar
Viscosity	: 35-45 sec, DIN cup 4

Spray instructions

If necessary, multiple cross coats.

Recommended layer thickness

Minimum 220 µm wet < > 160 µm dry

Indicative layer thickness per layer. For system layer thicknesses in accordance with ISO 12944, see 'BICCS Paint Systems' (www.biccs.nl) or contact your account manager or the Technical Support Department for project-specific advice. Avoid layer thicknesses > 300 µm dry. When applied by brush and paint roller, achieve the recommended film thickness per coat in 2 to 3 coats.

Tool cleaning

Washing thinner or BICCS Thinner 0104 [9164]

Drying (*)

Dust dry	: after 1 hour
Tack-free	: after 5 hours
For re-spraying	: after 12 hours and within 1 week
For sanding	: after approx. 24 hours
Cured	: after approx. 6 days

Data at 20°C and 65% RH

(*) Avoid temperature fluctuations during the drying process. After expiration of the re-spraying period, clean/degrease the surface and sand evenly to ensure adhesion.

All deliveries, quotations and recommendations are subject to the uniform sales and delivery conditions for paint, printer's ink and the like (V.V.V.F.) deposited with the clerk of the District Court in Amsterdam (the Netherlands) apply to all deliveries, offers and advice, unless agreed otherwise. The sales and delivery conditions can be downloaded from our website. If desired, these will be sent upon first request.

Additional Information

The product should be fully cured prior to loading.

Bipox 2C HS Primer IM-73 HB [6144] exhibits excellent performance as an active anti-corrosion adhesion primer for paint systems subject to permanent or variable water exposure (boats, swimming pools, tanks, etc.).

Example of paint system below the waterline:

1st coat:	Bipox 2C HS Primer IM-75 HB [6144]	dft 140 µm
2nd coat:	Bipox 2C HS Primer IM-75 HB [6144]	dft 140 µm
3rd coat:	Bichodur 2C High Gloss-98 Finish Plus (9243)	dft 80 µm

Warning restricted applicability

Given the diversity of aluminium alloys made available in the market depending on material requirements, it is impossible for us to recommend one single coating system that will apply to all aluminium. Our product data is generally based on pure, unalloyed aluminium, also known as the 1000 series.

Pre-treatment

To prevent new contamination/rust formation, the object should be coated immediately after blasting/sanding/degreasing. If in doubt about the substrate and/or pre-treatment, always prepare a test in advance to assess adhesion.

Application conditions

The data in this publication are based on a temperature of 20°C and 65% RH. For higher layer thicknesses and/or lower temperatures, longer drying times apply. During application and drying, avoid temperatures lower than 5°C and RH higher than 80%. For safety reasons, application of the lacquer should be carried out at a substrate temperature at least 3°C above the dew point. See the dew point table on the download page of our website (www.biccs.nl). Good ventilation is necessary during application and drying.

Safety

Suitable for professional use only. See also the corresponding safety data sheet (via download at www.biccs.nl).

For more information, please contact your BICCS account manager or the Technical Support department.

The information provided in this product data sheet is based on laboratory tests that have been accurately performed and are intended only as a guide to give an indication of application possibilities. All recommendations and suggestions related to the use of our products, whether in technical documentation or in response to a specific request, or otherwise, is based on our current knowledge where the data have been compiled to the best of our knowledge. The products and information are intended for professional industrial users with the necessary specific knowledge and industrial skills, and it is the responsibility of the end user to determine suitability for the application. PearlPaint Group has no control over the quality or condition of the substrate, nor on the many factors affecting the application and handling of the product, and therefore accepts no responsibility resulting from loss, damage or harm arising from the use of our products and/or the contents of this data sheet.

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