



Ebit-W

Low VOC water-based Epoxy Bitumen coating

DESCRIPTION

Ebit-W is a 2 components, low V.O.C. water-based epoxy with bitumen extender designed as an anti-corrosion coating over various types of substrate.

SUITABLE USES

New or existing construction substrates like concrete, ferrous and non-ferrous metal, cement boards, bricks, etc. It can also be use as an undercoat for water-based topcoats like epoxy and polyurethane.

- Construction, marine, and petrochemical facilities
- Sewage, pipeline and tank lining
- Structure steel and machinery, etc.

ADVANTAGES

- Water-based and low VOC coating
- Good resistance against extreme weather
- Good abrasion resistant
- Durable, hardens and dust proofs

SUBSTRATE REQUIREMENT

To obtain desirable result, ensure that Ebit-W is applied to clean, sound and water tight substrate free of existing coating, oil, grease, soot, dirt, adhesives, laitance and any other surface contamination and defect.

SURFACE PREPARATION (FRESH CONCRETE)

- Blast clean, scarify or grind the surface to remove laitance and expose blow hole
- Fill blow hole, crack, etc. with AquapoxyTM Screed or other filler with bond strength > 1.0 N/mm².
- Use Omniclean with jet washing to degrease oil, grease and hydrocarbon deposit.
- Moisture within the concrete should be <20% on Protimeter.

WORKING WITH EPOXY

Please read and understand Technical Data Sheet and Safety Data Sheet of each product before using them. We recommend only trained and approved applicator to perform application of Ebit-W system.

PRIMER

Primers like AquapoxyTM FGS (concrete and board) and AquapoxyTM AC1000 Primer (ferrous and non ferrous steel) are compatible with Ebit-W.

APPLICATION OF EBIT-W SYSTEM

Equip with right tool and equipment before mixing any epoxy. Sample of a stirrer is shown below.

Start stirring and move MG peddler in direction opposite to MG peddler blade rotation for 2 minutes to obtain a uniform and homogenous mass.



Then add Part B slowly while the mixing continues. Keep mixing for another 2 minutes.

Pot life of the material is about 30 minutes and vary depending on temperature and humidity.

Sample coverage

<u>Type of application</u>	<u>Min. usage (D.F.T.)</u>
Over metals	: >150μ
On concrete	: >350μ
Over tank or secondary substrate (as a lining)	: >1,000



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PHYSICAL PROPERTIES

Appearance	Part A - Epoxy bitumen Part B - Hardener
Bond strength ASTM D4541	> 1.0 N/mm ² after 14 days curing
Colour	Black
Chemical Resistance (Exposure for 7 days)	No dissolution CH ₃ COOH (10%) HCL (10%) H ₂ SO ₄ (10%) NaOH (20%)
Touch dry Over coat interval Full cure	10 hours @ 30°C 24 hours @ 30°C 7 days @ 30°C
Flash Point	Non Flammable
Flexural Test ASTM D522 Mandrel	No Crack No Peel off
Impact Resistance (ASTM G14 20" lbs)	No Crack No Peel off
Mixing Ratio	4 Part A : 1 Part B
Moisture Resistance ASTM D4585	No Peel off No Blistering
Salt Spray Test ASTM B117 at 500 hrs	No Peel Off No Blistering
Solid Content	> 65%
Volatile Organic content	< 10g/l

CLEANING TOOL & EQUIPMENT

Use water to clean before material start to harden

COVERAGE

As a protective coating

200μ D.F.T. requires about 240g /m²
350μ D.F.T. requires about 540g /m²

PACK SIZE

20 kg set - 16kg (Part A) + 4kg (Part B)

POTLIFE & SHELF LIFE

Pot life : 45 –50 minutes after mixing
Shelf life : 9 months in sealed condition
Do not use any mixture after 30 minutes.

STORAGE & TRANSPORTION

Keep Ebit-W in cool and dry condition. Store in it original sealed condition.

LIMITATIONS

- Ebit-W may not bond properly to curing compound or other coatings on concrete. Bond or pull off test is recommended to determine suitability before actual application.
- Coverage and consumption vary depending on porosity and roughness of substrate.
- Suitable application temperature is 15°C to 45°C
- Apply and install when relative humidity is <75%

DISCLAIMER CLAUSE

This TDS summarizes our best knowledge of this product, including how to use the product based on the information available at the time of publication. You should read this TDS carefully, consider and try out the information in the context of how the product will be used, including in conjunction with any other product, type of surfaces to, and the manner the product will be applied.

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