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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-22/0106 of 2022/03/15

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	ZINGA protective coating
Product family to which the above construction product belongs:	Anti-corrosion paint for steel
Manufacturer:	Zingametall BV Industriepark - Rozenstraat 4 BE-9810 Eke Tel: +32(0)9 385 68 81 web: www.zinga.eu
Manufacturing plant:	Zingametall BV Industriepark - Rozenstraat 4 BE-9810 Eke Tel: +32(0)9 385 68 81 web: www.zinga.eu
This European Technical Assessment contains:	5 pages
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 200188-00-1202 for Anti-corrosion paint for steel
This version replaces:	-

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

ZINGA protective coating is a liquid-applied, zinc-rich anti-corrosion paint for structural steel, consisting of zinc powder, an organic binder and aromatic solvent

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The ZINGA protective coating is intended for internal or external use as corrosion protection layer for uncoated structural steel as a primer and/or final corrosion protection layer for structural steel. The product can be applied at a range of thicknesses. For the purposes of this ETA the nominal final dry film thickness should be 120 µm

The product is intended to be used for the protection of uncoated structural steel in atmospheric corrosion categories up to and including C5, as described and categorised in EN ISO 12944-2 Table 1.

In certain areas it may be necessary to apply a protective topcoat over the product. In such cases precautions should be taken to minimise exposure of the product to any solvent contained in the topcoat (or any tie coats which may be used), by applying a very thin first coat and leaving to dry thoroughly before further applications. The compatibility of topcoats is outside the scope of this ETA and should be confirmed before application.

The provisions and the verification and assessment methods referred to in this ETA are based upon the methodology set out in EN ISO 12944 Paints and varnishes – Corrosion protection of steel structures by protective paint systems. This Standard assigns a product a durability rating of low (L), medium (M), high (H) or Very High (VH) (representing working lives of 2 to 7 years, 7 to 15 years, 15 to 25 years and greater than 25 years) in a range of environments of varying levels of atmospheric corrosivity, from C1 (very low corrosivity) to C5 (very high corrosivity).

Also available in the standard are requirements for use of the product in water and soil, in the following categories:

Im1 – fresh water immersion
Im2 – sea or brackish water
Im3 – soil (buried tanks, steel piles, steel pipes etc).

The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer or the Assessment Body but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment.

Characteristic	Assessment of characteristic
3.1 Mechanical resistance and stability (BWR 1)	
Protective effect against cyclic ageing	ZINGA, applied at a final dry film thickness of 60/60 µm, achieved the following classifications in various environments, when tested according to EN ISO 12944:

Durability rating and working life	Corrosivity category
Very High (>25 years)	C5 very high
Medium (5 to 15 years)	Im2 (sea or brackish water)
Medium (5 to 15 years)	Im3 (soil)

3.2 Safety in case of fire (BWR 2)	
Reaction to fire	The ZINGA protective coating in thickness 180 µm is classified as **Euroclass B-s1, d2** in accordance with EN 13501-1 and Delegated regulation 2016/364. The classification is valid for the following end use conditions: • Thickness: 2x 60 µm – 2 x 90 µm • Surface density: Coverage 0,65 – 0,97 kg/m^2. Other properties: • Zinc content in dry layer > 96%, unlimited pot and shelf life, Provides cathodic protection • Substrate: Non-combustible • Steel sheet (thickness 0.8 mm ±0.2 mm) 7850 ± 50 kg/m^3, according to EN 13238:2010). • Application: Free standing • Methods and means of fixing: Mechanically • Joints: Not applicable • Other aspects of end use conditions: Closed surface, no openings or gaps between components.
3.3 Hygiene, health and the environment (BWR 3)	
Content, emission and/or release of dangerous substances	No performance assessed

3.4 Methods of verification

The assessment of the performance of ZINGA protective coating in relation to the applicable BWR's has been made in accordance with the European Assessment Document (EAD) no. EAD 200188-00-1202 for Anti-corrosion paint for steel.

3.5 General aspects related to the fitness for use of the product.

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The ZINGA protective coating is manufactured in accordance with the provisions of this European

Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base.

4.1 AVCP system

According to the decision 2003/656/EC, the system(s) of assessment and verification of constancy of performance (see Annex III to Regulation (EU) No 305/2011) is 3.

The reaction to fire classifications covered by this ETA does not result in AVCP level 1 as the relevant footnote in the decision is not applicable.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD.

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2022-03-15 by

Thomas Bruun
Managing Director, ETA-Danmark