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Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA

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European Technical Assessment

ETA 08/0241
of 21.11.2017

General part

Technical Assessment Body issuing the ETA: ITeC ITeC has been designated according to Article 29 of Regulation (EU) No 305/2011 and is member of EOTA (European Organisation for Technical Assessment)	
Trade name of the construction product	**PRENOTECH®**
Product family to which the construction product belongs	Liquid applied roof waterproofing kit, based on polymer modified bitumen emulsions and solutions
Manufacturer	**IMREPOL SL** Carrer Equador, s/n Edifici l'Espill 2n 1a ES08402 Granollers (Barcelona) Spain
Manufacturing plant(s)	Pol. Ind. Can Castells C/ Barcelona s/n ES08420 Canovelles (Barcelona) Spain
This European Technical Assessment contains	8 pages including 2 annexes which form an integral part of this assessment.
This European Technical Assessment is issued in accordance with Regulation (EU) 305/2011, on the basis of	ETAG 005, edition March 2000, revision March 2004, *Liquid applied roof waterproofing kits Part 1: General* and *Part 2: Specific stipulations for kits based on polymer modified bitumen emulsions and solutions*, used as European Assessment Document (EAD).
This ETA replaces/amends/is a corrigendum to	ETA 08/0241 with validity from 28.11.2012 to 27.11.2017

General comments

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Specific parts of the European Technical Assessment

1 Technical description of the product

PRENOTECH® is a roof waterproofing kit manufactured by Imrepol SL consisting of a one-component aqueous emulsion of polymer modified bitumen (PRENOTECH®), a catalyst and a PP fibres antipuncturing separation sheet. No primers are needed for any substrate. The emulsion is spray applied together with a catalyst in order to form a homogeneous seamless roof waterproofing. After the membrane application, the antipuncturing separation sheet is installed on top of it.

The minimum thickness of the membrane is 3,0 mm, with a product application rate of 6 kg/m^2 minimum, depending on the substrate roughness.

PRENOTECH® is intended to be used under a protection layer.

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

PRENOTECH® kit is used as a roof waterproofing to resist the passage of water to the building's internal structure, in uses where Basic Work Requirements 2, 3 and 4 of the Regulation (EU) No 305/2011 concerning Safety in case of fire, Hygiene, Health and Environment, and Safety in use, including the aspect of durability, shall be satisfied.

The kit has been assessed for use on the following substrates:

- Concrete
- Ceramic tiles
- Steel

The assembled system is intended to be used under a mortar protection layer of 30 mm thickness minimum[1]. The roof built with the kit and the protection layer is accessible to pedestrian traffic.

The provisions made in this ETA are based on a working life[2] of 10 years for PRENOTECH®. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given on the working life cannot be interpreted as a guarantee given by the producer, 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.

The levels of use categories and performances given in section 3 and Annex A are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the manufacturer's technical dossier[3].

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[1] Other protection layers can be used in accordance with national building regulations.

[2] "Assumed working life" means that, when an assessment following the ETAG provisions is made, and when this working life has elapsed, the real working life may be, in normal use conditions, considerably longer without major degradation affecting the Basic Work Requirements.

[3] The manufacturer's technical dossier (MTD) comprises all information necessary for the production and the processing of the product as well as for the repair of the waterproofing made from that. It was checked by ITeC and it was found to be in accordance with the conditions stated in the assessment and the characteristic value determined during the assessment testing.

The part of the MTD to this ETA to be treated confidentially (inter alia the control plan for factory production control and initial type-testing) is deposited with ITeC and, as far as this is relevant to the tasks of the notified body involved in the procedure of assessment and verification of constancy of performance shall be handed over to the notified body.

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

Performance of PRENOTECH® related to the Basic Work Requirements (hereinafter BWR) were determined according to ETAG 005 Part 1 and Part 2, used as EAD.

3.1 Mechanical resistance and stability (BWR 1)

Not applicable.

3.2 Safety in case of fire (BWR 2)

- External fire performance: PRENOTECH® is always installed under a protection layer[4]: B_{ROOF} (t1, t2, t3 or t4), according to Commission Decisions 2001/671/CE and 2000/553/CE.
- Reaction to fire: Not assessed.

3.3 Hygiene, health and the environment (BWR 3)

- Resistance to water vapour (EN 1931): Mean value μ = 21930.
- Watertightness (EOTA TR 003): The requirement is met.
- Release of dangerous substances: According to the manufacturer's declaration, the components of the kit do not contain nor release any dangerous substances, except for the component PRENOTECH® which contains < 5 ppm of chlorobutadiene (2-chloro-1,3-butadiene, CAS 126-99-8). It is important to take into account that the membrane is intended to be used under a protection layer[4].

  Note: In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Directive, these requirements need also to be complied with, when and where they apply.

- Resistance to wind loads (EOTA TR 004): The requirement is met. (> 50 kPa).
- Resistance to dynamic indentation (EOTA TR 006): I1.
- Resistance to static indentation (EOTA TR 007): L1.
- Resistance to fatigue movement (EOTA TR 008): The requirement is met.
- Resistance to dynamic indentation at low temperatures (EOTA TR 006 at -20 ºC): I1.
- Flexibility at low temperatures (EN 1109 at -20 ºC): The requirement is met.
- Resistance to wind loads at high temperatures (EOTA TR 004 at 40 ºC): The requirement is met (> 50 kPa).
- Resistance to static indentation at high temperatures (EOTA TR 007 at 60 ºC): L1.

[4] A mortar protection layer of 30 mm thickness minimum or other protection layers in accordance with national building regulations.

- Resistance to sliding at high temperatures (EOTA TR 009 at 60 ºC): The requirement is met.
- Resistance to heat ageing (EOTA TR 011, 80 ºC during 100 days):
    - Resistance to fatigue movement (-10 ºC): The requirement is met.
    - Resistance to dynamic indentation (-20 ºC): I_1.
- Resistance to UV ageing (EOTA TR 010, at an exposure of 400 MJ/m^2): Not relevant.
- Resistance to water ageing (EOTA TR 012, 60 ºC during 30 days):
    - Resistance to static indentation (60 ºC): L_1.

3.4 Safety in use (BWR 4)

- Slipperiness (EN 13893): Not relevant.

3.5 Protection against noise (BWR 5)

Not applicable.

3.6 Energy economy and heat retention (BWR 6)

Not applicable.

3.7 Related aspects of serviceability

- Effects of weather conditions on the resistance to dynamic indentation:

  On a steel substrate:
  Resistance to dynamic indentation (5 ºC): I_1.
  Resistance to dynamic indentation (50 ºC): I_1.

  On a concrete substrate:
  Resistance to dynamic indentation (5 ºC): I_1.
  Resistance to dynamic indentation (50 ºC): I_1.

- Effects of weather conditions on the resistance to static indentation:

  On a steel substrate:
  Resistance to static indentation (5 ºC): I_1.
  Resistance to static indentation (50 ºC): I_1.

  On a concrete substrate:
  Resistance to static indentation (5 ºC): I_1.
  Resistance to static indentation (50 ºC): I_1.

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

According to the European Commission Decision 98/599/EC[5], amended by Decision 2001/596/EC[6], the systems of AVCP (see EC delegated regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

Table 4.1: Applicable AVPC system.

Product	Intended use(s)	Level or class	System
PRENOTECH®	Liquid applied roof waterproofing kit not subject to fire regulations	Any	3

According to this decision, system 3 of AVCP also applies with regard to external fire performance.

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

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC[7], with which the factory production control shall be in accordance.

Any change in the manufacturing procedure which may affect the properties of the product shall be notified and the necessary type-testing revised according to the *Control Plan*.

Issued in Barcelona on 21 November 2017

by the Catalonia Institute of Construction Technology.

Ferran Bermejo Nualart

Technical Director, ITeC

[5] Official Journal of the European Union (OJEU) L287 of 24/10/1998.

[6] Official Journal of the European Union (OJEU) L209 of 02/08/2001.

[7] The *Control Plan* is a confidential part of the ETA and is only handed over to the notified certification body involved in the assessment and verification of constancy of performance.

ANNEX A: Levels of use categories according to ETAG 005 for system PRENOTECH®

Working life:	W2
Climatic zones:	S
Imposed loads:	P1 [8]
Roof slope:	S1 to S4
Lowest surface temperature:	TL3
Highest surface temperature:	TH2 (under heavy protection layer)

[8] P1 is determined on the waterproofing system without a heavy protection layer. With a heavy protection layer the permissible imposed load may be higher.

ANNEX B: Basic installation criteria

The levels of use categories and the performance of the roof waterproofing can be assumed only if the installation is carried out according to the manufacturer instructions stated in the MTD, in particular taking account of the following points:

- Only marked components of the kit shall be used.
- Substrates must be inspected and if necessary, treated to ensure that they are smooth enough and clean.
- Precautions during installation.
- Compliance with suitable weather conditions for applying and curing
- Installation shall be performed applying 6 kg/m^2 minimum of PRENOTECH®, ensuring a final thickness of 3,0 mm and setting an antipuncturing separation sheet (> 80 g/m^2) on top of it, immediately after the application.
- Appropriate tools must be used.

An interval of 24 h to 72 h shall be left before applying the protection layer.

It is the manufacturer responsibility to make sure that all those who use the kits are appropriately informed of the specific conditions according to sections 1, 2 and 3 including the annexes of this ETA.