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European Technical Assessment

ETA 07/0075
of 15.05.2018



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	Roof waterproofing system SPRING
Product family to which the construction product belongs	Liquid applied roof waterproofing kit, based on water dispersable polymers
Manufacturer	Euroquímica Paints SA Ctra. Argentona a Dosrius km 2 08319 Dosrius (Barcelona) – Spain
Manufacturing plant(s)	Ctra. Argentona a Dosrius km 2 08319 Dosrius (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	<i>ETAG 005, edition March 2000, revision March 2004, Liquid applied roof waterproofing kits Part 1: General and Part 8: Specific stipulations for kits based on water dispersable polymers, used as European Assessment Document (EAD).</i>
This ETA replaces/amends/is a corrigendum to	ETA 07/0075 with validity from 21.05.2013 to 21.05.2018

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.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may be made, with the written consent of issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

Specific parts of the European Technical Assessment

1 Technical description of the product

SPRING is a roof waterproofing kit manufactured by Euroquímica Paints SA consisting of a one-component acrylic paste (SPRING-EQ-22), a glass fibre mesh and primers (PAVEX 503 and PP-45) when needed for specific substrates. As assembled system these components form a homogeneous seamless roof waterproofing.

The minimum thickness of the assembled system is 1,0 mm, with a paste application rate of 2,4 kg/m² minimum. To achieve this specification the following should be applied:

1. A primer (when necessary)
2. SPRING-EQ-22 of 1,2 kg/m² minimum
3. A glass fibre mesh of 61 g/m² to the first fresh coat
4. SPRING-EQ-22 of 1,2 kg/m² minimum

The system can be applied without a protection layer or with a ballast layer on top of the waterproofing (specifications of the protection layer in annex).

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

The SPRING 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 aspects of durability, shall be satisfied.

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

- Sandwich panel (prelacquered galvanised steel)
- Concrete, primed with PAVEX 503
- Fibrecement
- Ceramic tiles, not primed except
- Pore closed smooth surface ceramic tiles, primed with PP-45
- Existing SPRING roofs

The provisions made in this ETA are based on a working life¹ of 10 years for SPRING. 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 dossier².

¹ "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.

² 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

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

Performance of SPRING related to the Basic Work Requirements (hereinafter BWR) were determined according to ETAG 005 Part 1 and Part 8, 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:
 - Without protection: Not assessed.
 - With protection (ballast layer): B_{ROOF}, 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 $\mu = 7052$
- Watertightness (EOTA TR 003): The requirement is met.
- Release of dangerous substances: Not assessed.
- Resistance to wind loads (EOTA TR 004): The requirement is met (> 50 kPa).
- Resistance to dynamic indentation (EOTA TR 006): I2.
- Resistance to static indentation (EOTA TR 007): L2.
- Resistance to fatigue movement (EOTA TR 008): The requirement is met.
- Resistance to dynamic indentation at low temperatures (EOTA TR 006 at -20 °C): I2.
- Resistance to static indentation at high temperatures (EOTA TR 007 at 90 °C): L2
- Resistance to heat ageing (EOTA TR 011, 70°C during 200 days):
 - Resistance to fatigue movement: The requirement is met.
 - Resistance to static indentation (-20 °C): L2
 - Tensile strength and elongation at break (on aged and unaged samples): The requirements are met.
- Resistance to UV ageing (EOTA TR 010, at an exposure of 400 MJ/m²):
 - Resistance to dynamic indentation (-10 °C): I2
 - Tensile strength and elongation at break (on aged and unaged samples): The requirements are met.
- Resistance to water ageing (EOTA TR 012, 60 °C during 30 days):
 - Resistance to static indentation (90 °C): L2
 - Resistance to wind loads: The requirement is met. (> 50 kPa)

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.

3.4 Safety in use (BWR 4)

- Slipperiness (EN 13893): $\mu = 0,78$

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 tensile strength and elongation at break: The requirements are met.
- Effects of weather conditions on the resistance to dynamic indentation:
 - On a steel substrate:
 - Resistance to dynamic indentation (10 °C): I2
 - Resistance to dynamic indentation (50 °C): I2
 - On a PUR foam substrate³:
 - Resistance to dynamic indentation (10 °C): I2
 - Resistance to dynamic indentation (50 °C): I2
- Overlapping of day joints:

Resistance to delamination (EOTA TR 004) of a day joint: The requirement is met (> 50 kPa).

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/EC⁴, amended by Decision 2001/596/EC⁵, 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
SPRING	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.

³ Substrate discarded.

⁴ Official Journal of the European Union (OJEU) L287 of 24/10/1998.

⁵ Official Journal of the European Union (OJEU) L209 of 02/08/2001.

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 ITeC⁶, 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 15 May 2018

by the Catalonia Institute of Construction Technology.



Ferran Bermejo Nualart
Technical Director, ITeC

⁶ 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 roof waterproofing SPRING

Working life:	W2
Climatic zones:	S
Imposed loads:	P2
Roof slope:	S1 to S4
Lowest surface temperature:	TL3
Highest surface temperature:	TH4

ANNEX B: Components and basic installation criteria

System build-up of the roof waterproofing SPRING

Components:

1. Primer (where required for specific substrates)
2. SPRING-EQ-22 (of 1,2 kg/m² minimum)
3. Glass fibre mesh of 61 g/m²
4. SPRING-EQ-22 (of 1,2 kg/m² minimum)

When the system requires a protection layer, the following components are needed:

5. Antipuncturing separation sheet (system build-up with protection)
6. Ballast layer, minimum thickness 5 cm, aggregate size range 16-32 mm (system build-up with protection)

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 solid, clean and dry.
- Precautions during installation
- Compliance with suitable weather conditions for applying and curing
- An adequate primer, as defined in the MTD, shall be applied to certain substrates
- Installation shall be performed applying 1,2 kg/m² minimum of SPRING-EQ-22, embedding a glass fibre mesh, applying 1,2 kg/m² minimum of SPRING-EQ-22, and ensuring a final thickness of 1,0 mm. An interval of 24 h between each application shall be left.
- Appropriate tools must be used.

The instructions for repairing on site and handling of waste products shall be followed.