



INSTYTUT TECHNIKI BUDOWLANEJ



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## European Technical Assessment

**ETA-18/0490  
of 29/12/2025**



### General Part

**Technical Assessment Body issuing the European Technical Assessment**

Instytut Techniki Budowlanej

**Trade name of the construction product**

UNIEPAL-DREW AQUA 1-K

**Product family to which the construction product belongs**

Fire retardant product

**Manufacturer**

Przedsiębiorstwo Produkcyjno-Handlowe  
"ADW" Sp. z o.o.  
ul. Zbożowa 2, 43-175 Wry  
Poland

**Manufacturing plant**

Przedsiębiorstwo Produkcyjno-Handlowe  
"ADW" Sp. z o.o.  
ul. Zbożowa 2, 43-175 Wry  
Poland

**This European Technical Assessment contains**

4 pages

**This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of**

European Assessment Document (EAD)  
350865-00-1106 "Fire retardant products"

**This version replaces**

ETA-18/0490 issued on 29/06/2018

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## Specific Part

### 1 Technical description of the product

UNIEPAL-DREW AQUA 1-K is a one-component water-based polyurethane varnish with added modifiers and flame retardants, designed to reduce the ignitability of timber and timber based surfaces of construction products, applied directly on the substrate by brush, roller or spray gun. UNIEPAL-DREW AQUA 1-K is applied at a loading of 200 g/m<sup>2</sup>.

Substrate has to be dry, free from grease, dirt, dust, wax, oil and other contaminants. Existing coatings shall completely be removed.

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

UNIEPAL-DREW AQUA 1-K is intended to be used as a fire retardant product to enhance the reaction to fire performance of timber and timber based construction products, including floorings.

UNIEPAL-DREW AQUA 1-K may be applied to:

- any timber substrates (excluding exotic timber), with a thickness of at least 12 mm and a density at least 450 kg/m<sup>3</sup>,
- any timber based substrates, with a thickness of at least 12 mm and a density at least 630 kg/m<sup>3</sup>.

Regarding the environmental conditions, UNIEPAL-DREW AQUA 1-K is intended for use category Type Z<sub>2</sub> (internal conditions with humidity lower than 85% R.H., excluding temperatures below 0°C).

The provisions made in this European Technical Assessment are based on an assumed working life of the fire retardant product of 5 years, provided that the conditions for the packaging, transport, storage and installation as well as appropriate use, maintenance and repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right product 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

#### 3.1 Performance of the product

Performance of UNIEPAL-DREW AQUA 1-K related to the Basic Requirements is given in Table 1.

Table 1

| Essential characteristic                                                                     | Performance             |
|----------------------------------------------------------------------------------------------|-------------------------|
| <b>BWR 2: Safety in case of fire <sup>*)</sup></b>                                           |                         |
| Reaction to fire:                                                                            |                         |
| – reaction to fire for construction products, excluding floorings, without existing coatings | B-s1, d0                |
| – reaction to fire for floorings, without existing coatings                                  | B <sub>fi</sub> -s1     |
| Durability                                                                                   | Type Z <sub>2</sub>     |
| Serviceability of floorings                                                                  | No performance assessed |
| <b>BWR 3: Hygiene, health and the environment</b>                                            |                         |
| Content, emission and/or release of dangerous substances                                     | No performance assessed |
| <sup>*)</sup> substrates description according to clause 2                                   |                         |

**3.2 Methods used for the assessment**

The assessment has been made in accordance with EAD 350865-00-1106.

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

According to Decision 1999/454/EC of the European Commission, amended by Decision 2001/596/EC, the system 1 of assessment and verification of constancy of performance applies (see Annex V to regulation (EU) No 305/2011).

**5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable European Assessment Document (EAD)**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

Issued in Warsaw on 29/12/2025 by Instytut Techniki Budowlanej



Anna Panek, MSc  
Deputy Director of ITB