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## European Technical Assessment

**ETA-18/0490  
of 29/06/2018**

### 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 products

**Manufacturer**

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

**Manufacturing plant**

Przedsiębiorstwo Produkcyjno – Handlowe  
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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**

Guideline for European Technical Approval ETAG 028 “Fire retardant products” edition June 2012, used as European Assessment Document (EAD)

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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 products, applied by brush, roller or spray gun directly on the substrate. 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 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 (excluding exotic timber) and timber based substrates, with a thickness of at least 12 mm.

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 UNIEPAL-DREW AQUA 1-K of 5 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or Technical 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

#### 3.1 Performance of the product

Basic requirements	Essential characteristic	Performance
BWR 2 Safety in case of fire	Reaction to fire for construction products excluding floorings	B-s1,d0
	Reaction to fire for floorings	B <sub>fl</sub> -s1
General aspects relating to the performance of the product	Durability	Type Z <sub>2</sub>
	Serviceability for floorings	No performance assessed

The other performance included in ETAG 028 has not been assessed in this ETA.



### **3.2 Methods used for the assessment**

The assessment of UNIEPAL-DREW AQUA 1-K for the declared intended use has been made in accordance with the ETAG 028 "Fire retardant products" edition June 2012, used as EAD.

#### **3.2.1 Reaction to fire**

The reaction to fire performance of UNIEPAL-DREW AQUA 1-K has been tested according to EN 13823 and EN ISO 11925.

The fire classification is given in accordance with EN 13501-1 and Regulation (EU) No. 2016/364. The classification is valid for UNIEPAL-DREW AQUA 1-K applied at a loading of 200 g/m<sup>2</sup> to any timber (excluding exotic timber) or timber based products, with a thickness of at least 12 mm.

#### **3.2.2 Durability**

The verification was made in accordance with clause 2.4.3 and Annex B of ETAG 028, for environmental use conditions Type Z<sub>2</sub>. Durability of the reaction to fire performance was assessed by subjecting test specimens to fire tests in accordance with ISO 5660-1, then further specimens were subjected to ageing procedures then fire tested again to ISO 5660-1.

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

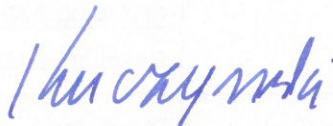
According to Decision 1999/454/EC of the European Commission, the system 1 of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) applies.

### **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 the 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.

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