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European Technical Assessment

**ETA 17/0709
of 25/11/2024**

English translation prepared by IETcc. Original version in Spanish language

General Part

Technical Assessment Body issuing the ETA:

Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc)

Trade name of the construction product:

DOBLE COMPONENTE AUTOMÁTICO 1:1

Cold plastic without premix glass beads, applied by
spray, with drop-on material.

Product family to which the construction product belongs

ROAD MARKING PRODUCT

Manufacturer:

VISEVER FABRICACION, S.L.
Polígono Industrial de Villarrobledo
Calle Arquímedes, 50,
02600 Villarrobledo (Albacete) SPAIN

Manufacturing plant(s):

Polígono Industrial Eras de Santa Lucía
Calle E, parcela 7.4
02600 Villarrobledo (Albacete) SPAIN

This European Technical Assessment contains

7 pages

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

European Assessment Document (EAD)
230011-00-0106
ROAD MARKING PRODUCTS

This version replaces

ETA 17/0709 issued on 20/08/2018

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SPECIFIC PARTS

1. Technical description of the product

DOBLE COMPONENTE AUTOMÁTICO 1:1 is a cold plastic (as defined in EN 1871) used as a surface coating material for signalisation purposes when it is applied on the road requiring dropped-on materials. The cold plastic is put on the market with indications on types and proportions of dropped-on materials.

Trademark: **DOBLE COMPONENTE AUTOMÁTICO 1:1**
Nature: Cold plastic (applied by spray)
Colour: White
Producer: VISEVER FABRICACIÓN, S.L.

Physical and chemical characteristics: see Table 1.1.

Table 1.1: Characteristics in accordance with EN 1871	
CHARACTERISTICS	DECLARED VALUE
Luminance factor	$\beta \geq 0.80$
Chromaticity co-ordinates	Inside white polygon
Ageing UV	$\Delta\beta \leq 0.05$
Alkali resistance	Pass
Storage stability	≥ 4

The product must be considered as the basis of a family. It may be used in different combinations (proportions) or installation instructions in order to reach different intended uses. Each of these combinations is identified as a System of the same family.

Identification of the Systems

This ETA concerns:

DOBLE COMPONENTE AUTOMÁTICO 1:1 – System 1 defined by the installation instructions given in Table 1.2, together with the Certificate of Constancy of Performance of the drop-on materials.

Table 1.2: Installation instructions of the DOBLE COMPONENTE AUTOMÁTICO 1:1 – System 1		
Identification material and type of application		Dosage(s)
Surface coating material	Trademark: DOBLE COMPONENTE AUTOMÁTICO 1:1 Cold plastic without premix glass beads, applied by spray with drop-on material	900 g/m ²
Drop-on materials	Trademark: glass-beads ECHOSTAR 20 BCP [DoP 33] Certificate of Constancy of Performance: 0099/CPR/A72/0001	500 g/m ²
	Trademark: antiskid aggregate 850-250 glass grains GV32 [DoP 64] Certificate of Constancy of Performance: 1137-CPR-0494/81	100 g/m ²

NOTE: Other combination(s) than System 1, must be assessed and it (they) may give rise to an addendum to this ETA.



2. Specification of the intended use in accordance with the applicable EAD.

2.1 DOBLE COMPONENTE AUTOMÁTICO 1:1 – System 1

- It is intended to be used for white permanent road markings in trafficked areas without presence of traffic with studded tyres.
- It is designed to give to the resulting road marking satisfactory day and night visibility (on dry, wet and rainy conditions) and skid resistance properties at initial and after 4 million roll-overs.
- The substrate on which the RPM has provided satisfactory performances, in accordance with EN 1871, is bituminous asphalt and cement concrete.
- The maximum roughness of the test plate on which the RMP has been assessed for durability performance, in accordance with EN 13197, is 0.9 mm (roughness measured as texture depth in accordance with EN 13036-1).
- It is intended to be used (not applied) at a temperature range from -40 °C to +70 °C for outside uses and from +5 °C to +70 °C for indoor uses. In addition, where relevant, the product has provided satisfactory performance for UV ageing.

2.2 Relevant general conditions for the use of the kits

The provisions made in this European Technical Assessment are based on an assumed working life of 1 year as minimum, according to EAD 230011-00-0106, provided that the conditions lay down for the installation, packaging, transport and storage 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, 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.

Installation should be carried out according to the ETA holder's specifications and using the specific application instructions of the product manufactured by the ETA holder or by suppliers recognized by the ETA holder. Installation should be carried out by appropriately qualified staff and under the supervision of the technical responsible of the site.

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

3.1 Essential characteristics of the product

The identification tests and the assessment for the intended use of this Road Marking Product according to the Basic Work Requirements (BWR) were carried out in compliance with the EAD 230011-00-0106 Road Marking Products.

The characteristics of the system shall correspond to the respective values laid down in Table 2 of this ETA, checked by IETcc.

Methods of verification and of assessing and judging are listed afterwards.

3.1.1 *Mechanical resistance and stability (BWR 1)*

Not relevant

3.1.2 *Safety in case of fire (BWR 2)*

Not relevant



3.1.3 Hygiene, health and environment (BWR 3)

Not relevant

3.1.4 Safety and accessibility in use: (BWR 4)

For testing durability, the manufacturer may choose either:

- method A: Road trial with an option according to EN 1824 (expressed as roll-over number) or
- method B: Wear simulator according to EN 13197 (expressed as traffic number).

For this ETA, the manufacturer has chosen for testing durability the method B "Wear simulator". The option No Performance Assessed for method A "Road Trials" is used.

Table 2: Results for DOBLE COMPONENTE AUTOMÁTICO 1:1 - System 1									
Basic Works Requirement: Safety in use									
Durability			Night and day visibility and skid resistance for each durability level						
Test method used	Number of roll-over x 10 ⁶		Night-time visibility			Day-time visibility			Skid resistance
			R _L in mcd·m ⁻² ·lx ⁻¹ under conditions of			β luminance factor	Q _d in mcd·m ⁻² ·lx ⁻¹	Chromaticity Co-ordinates CIE (x, y)	SRT units
			dry	wetness	rain				
Method B wear simulator EN 13197	Initial	0.01	454	117	39	0.73	238	always inside white polygon (EN 1436)	56
	Retained	0.1	446	102	40	0.72	241		50
		0.2	380	78	36	0.73	245		51
		0.5	312	52	27	0.72	245		48
		1.0	222	48	25	0.71	244		49
		2.0	190	46	25	0.72	246		50
		4.0	162	39	25	0.73	242		49
	General aspects in relation to the intended use								
Retroreflection		Alkali resistance			Bleeding resistance		Test plates roughness		
Type II		Pass			Not applicable		0.8 mm		
Indentation		Colour			Softening point		ageing UV		
Not applicable		White			Not applicable		Δβ ≤ 0.05		

3.1.5 Protection against noise (BWR 5)

Not relevant.

3.1.6 Energy economy and heat retention (BWR 6)

Not relevant.

3.1.7 Sustainable use of natural resources (BWR 7)

Not relevant.



3.2 Methods of verification

The assessment for the intended use was carried out according to the Basic Work Requirements (BWR). The characteristics of the system shall correspond to the respective values laid down in Table 2 of this ETA, checked by IETcc.

3.2.1 Retroreflectivity in dry conditions (R_L)

As coefficient of retroreflected luminance R_L (or retroreflectivity), according to the applicable part of EN 1436.

3.2.2 Retroreflectivity in conditions of wetness (R_L)

As coefficient of retroreflected luminance R_L (or retroreflectivity), according to the applicable part of EN 1436.

3.2.3 Retroreflectivity in conditions of rain (R_L)

As coefficient of retroreflected luminance R_L (or retroreflectivity), according to the applicable part of EN 1436.

3.2.4 Chromaticity co-ordinates (x, y)

As chromaticity co-ordinates CIE (x, y), according to the applicable part of EN 1436.

3.2.5 Luminance Factor (β)

According to the applicable part of EN 1436.

3.2.6 Luminance coefficient under diffuse illumination (Q_d)

According to the applicable part of EN 1436.

3.2.7 Skid resistance (SRT)

According to the applicable part of EN 1436.

3.2.8 Durability

For this ETA, the manufacturer has chosen for testing durability the method B "Wear simulator" according to the specifications given in EN 13197. Test plates roughness: measured according to EN 13036-1 and the results expressed as the texture depth.

3.2.9 Bleed resistance (only for paints)

Not applicable



3.2.10 Alkali resistance

According to the applicable part of EN 1871 and the result expressed as pass/fail.

3.2.11 Indentation (only for thermoplastics)

Not applicable.

3.2.12 Softening point (only for thermoplastics)

Not applicable.

3.2.13 UV ageing

According to the applicable part of EN 1871.

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

4.1 System of assessment and verification of constancy of performance

According to the decision 96/579/EC of the European Commission¹, system 1 of assessment and verification of constancy of performance (see EC delegated regulation (EU) N.º 568/2014 amending Annex V to Regulation (EU) N.º 305/2011) applies.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan which is deposited at IETcc².

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 IETcc and the notified body.

Issued in Madrid on 2024 November 25

By

Ángel Castillo Talavera

Director

on behalf of Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc – CSIC)

¹ Published in the Official Journal of the European Union (OJEU) L254 of 8.10.1996, p0052 -0055.

See www.new.eur-lex.europa.eu/oj/direct-access.html

² The Control Plan is a confidential part of the ETA and only handed over to the notified certification body involved in the assessment and verification of constancy of performance.

