Asociación para el Estudio de las Tecnologías de Equipamiento de Carreteras, S.A

Quality control:
· Durability test for road marking materials
· Road marking, perfomance in use

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N° 877/LE1781

ROAD MARKING MATERIALS

(Durability against abrasion: UNE-EN 13197:2012+A1:2014)

CERTIFICATE OF DURABILITY TEST — REF. 3986/PE-RR-II

Client: SWARCO VICAS
Soseaua Gaesti 8
130087 TARGOVISTE - Romania

Issue date: March 02nd, 2017

1.- TESTED ROAD MARKING SYSTEM

A) IDENTIFICATION

MATERIALS IDENTIFICATION, TRADE MARK NAME AND TYPE OF APPLICATION		MANUFACTURER(S)	Thickness (µm)	Dossage (g/m²)
Nature: Trade mark[1]: Applied by:	White acrylic paint **SWARCOMARK SV 210** Spray	SWARCO VICAS	600	930
Nature: Trade mark[2]: Applied by:	Glass beads and antiskid aggregates **SWARCOLUX 50 212-1400 T14 M20** Drop-on	M. SWAROVSKI GmbH		450
TYPE OF MATERIAL:	White acrylic paint without premix glass beads applied by spray and with a mixture of drop-on glass beads and antiskid aggregates.			
CHARACTERISTIC OF THE ROAD MARKING: (in accordance with UNE-EN 1436:2009+A1:2009)	Not structured			

1) The characteristics of identification of the material can be obtained from the own manufacturer or in this laboratory with his autorization.

2) The tested material is identified by its **CE Declaration of Conformity** and their accompanying documents.

B) TEST RESULTS: on roughness (in accordance with UNE-EN 13197:2012+A1:2014) — RG2

REQUIREMENTS OF THE ROAD MARKING SYSTEM in accordance with UNE-EN 1436:2009+A1:2009				DURABILITY expressed in TRAFFIC CLASSES, in accordance with UNE-EN 13197:2012+A1:2014				
According to the intended use of the road marking system, not all requirements are necesaries			Expressed in	P0	P4	P5	P6	P7
Night-time visibility	Coefficient of retro reflected luminance R_L	dry	Class (R)	R4	R4	R4	R4	R4
		rain	Class (RR)	RR5	RR4	RR5	RR4	RR3
		wet	Class (RW)	RW6	RW6	RW6	RW6	RW5
Day-time visibility	Luminance coeficient in diffuse illumination Qd		Class (Q)	Q5	Q5	Q5	Q5	Q5
	or luminance factor ß		Class (B)	B5	B5	B5	B5	B5
	Chromatcity coordinates (x,y)		Pass / Not Pass	pass	pass	pass	pass	pass
Skid resistence	SRT units		Class (S)	S3	S3	S3	S3	S3
Wear	Percentage of wear (remaining road marking)		%	100	98	97	96	94
Type	Type road marking system		Type I / II	II				
NO PICKUP-TIME: In accordance with UNE-EN 13197:2012+A1:2014			Class (T)	T2				

Date of start of the test: November 14th, 2016 — Date of end the test: December 9th, 2016

The validity status of the certificate can be confirmed in www.aetec.es

Digitally signed by Pahomi Sergiu
Date: 2023.03.30 12:08:12 EEST
Reason: MoldSign Signature
Location: Moldova

MATERIALE MARCAJ RUTIER

(Durabilitatea contra abraziunii : UNE-EN 13197:2012+A1:2014)

CERTIFICAT DE TEST DE DURABILITATE	REF.	3986/PE-RR-II

Customer: SWARCO VICAS
Soseaua Gaesti 8
130087 TARGOVISTE – Romania

Data eliberarii : 02 martie 2017

1. SISTEM DE MARCAJ RUTIER TESTAT

A) IDENTIFICARE

IDENTIFICAREA MATERIALELOR, DENUMIREA MARCII DE COMERT SI TIPUL APLICATIEI		FABRICANTUL (S)	GROSIME (µm)	Dozare (g/m²)
Felul Marca de comert Aplicat de	Vopsea acrilica, alba SWARCOMARK SV 210 Pulverizare	SWARCO VICAS	600	930
Felul Marca de comert Aplicat de	Perle de stical si agregate antiderapante SWARCOLUX 50 212-1400 T14 M20 Picurare	M. SWAROVSKI GmbH		450
TIPUL DE MATERIAL: Termoplastic, alb, cu perle de sticla preamestecare prin extrudare si cu un amestec de perle de sticla picurate si agregate antiderapante.				
CARACTER0ISTICILE MARCAJULUI RUTIER: In conformitate cu UNE-EN 1436:2009 + A1:2009			Nestructurat	

1) Caracteristicile de identificare ale materialului pot fi obtinute de la producatorul sau sau in acest laborator cu autorizarea sa.
2) Materialul testat este identificat prin Declaratia de Conformitate CE si cu documentele insotitoare.

B) REZULTATELE TESTULUI : asupra rugozitatii (in conformitate cu UNE-EN 13197:2012 + A1;2014) RG2

CERINTE PENTRU SISTEMUL DE MARCAJ RUTIER (conform UNE-EN 1436:2009 + A1:2009)				DURABILITATE exprimata in CLASE DE TRAFIC, conform UNE-EN 13107-2012 + A1:2014				
Conform utilizarii proiectate pentru sistemul de marcaj rutier, nu sunt necesare toate cerintele			Exprimat in	P0	P4	P5	P6	P7
Vizibilitatea pe timp de noapte	Coeficientul lu minantei retro reflectate R4	uscat	Clasa (R)	R4	R4	R4	R4	R4
		ploaie	Clasa (RR)	RR5	RR4	RR5	RR4	RR3
		umed	Clasa (RW)	RW6	RW6	RW6	RW6	RW5
Vizibilitatea pe timp uscat/seceta	Coeficientul de luminanta in iluminare difuza Qd		Clasa (Q)	Q5	Q5	Q5	Q5	Q5
	sau factor de luminanta ß		Clasa (ß)	B5	B5	B5	B5	B5
	Coordonatele cromatice (x,y)		Trece/Nu trece	trece	trece	trece	trece	trece
Rez. la alunecare	Unitati SRT		Clasa (S)	S3	S3	S3	S3	S3
Uzura	Procent de uzura (marcaj rutier ramas)		%	100	98	97	96	94
Tipul	Tipul sistemului de marcaj rutier		Tip I / II	II				
FARA TIMP DE PRELUARE: conf. UNE-EN 13197:2009+A1:2009			Clasa (T)	T2				

Data inceperii testului	14 noiembrie 2016	Data terminarii testului	9 decembrie 2016

CERTIFICAT DE TEST DE DURABILITATE Acest certificat este identic versiunii originale spaniole	Ref.	Data eliberarii	Director Laborator, *Semnatura indescifrabila* *Stampila rotunda legala a AETEC SA* D.Franciaco J. Guarra	Referinta document 1-7 MC Rev.9 Pag. 1 din 2
	3986/PE-RR-II	02 martie 2017		

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Engleză, Franceză
Autorizatie nr. 8446