

ROAD MARKING MATERIALS

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

CERTIFICATE OF DURABILITY TEST

REF.

3520/PE-R-I

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/m ²)
Nature:	White acrylic paint			
Trade mark ¹ :	SWARCOMARK SV 330	SWARCO VICAS	x	720
Applied by:	Spray			
Nature:	Glass beads/Antiskid aggregates			
Trade mark ² :	SWARCOFLEX 200-800 T14 M20	SWARCO M. SWAROVSKI GmbH		450
Applied by:	Drop-on			
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 to 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 authorization.

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

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

RG2

REQUIREMENTS OF THE ROAD MARKING SYSTEM in accordance to UNE-EN 1436:2009+A1:2009				DURABILITY expressed in TRAFFIC CLASSES, in accordance to UNE-EN 13197:2012+A1:2014				
According to the intended use of the road marking system, not all requirements are necessary			Expressed in	P0	P4	P5	P6	P7
Night-time visibility	Coefficient of retro reflected luminance R_L	dry	Class (R)	R3	R3	R2	R2	R2
Day-time visibility	Luminance coefficient in diffuse illumination Q_d		Class (Q)	Q5	Q5	Q5	Q5	Q5
	or luminance factor β		Class (B)	B5	B5	B5	B5	B5
	Chromaticity coordinates (x,y)		Pass / Not Pass	pass	pass	pass	pass	pass
Skid resistance	SRT units		Class (S)	S4	S2	S1	S1	S2
Wear	Percentage of wear (remaining road marking)		%	100	99	98	96	93
Type	Type road marking system		Type I / II	I				
NO PICKUP-TIME: in accordance with UNE-EN 13197:2012+A1:2014			Class (T)	T2				

Date of start of the test:

June 22th, 2015

Date of end the test:

July 17th, 2015

CERTIFICATE OF DURABILITY TEST

Ref.

Issue date

Technical Director

Document reference

3520/PE-R-I

March 02nd, 2017

D. Francisco J. Guerra

17-MC

Rev. 0

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

CERTIFICAT DE TEST DE DURABILITATE	REF.	3520/PE-R-I
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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 330 Pulverizare	SWARCO VICAS	x	720
Felul Marca de comert Aplicat de	Perle de sticla / agregate antiderapante SWARCOFLEX 200-800 T14 M20 Picurare	SWARCO M. SWAROVSKI GmbH		450
TIPUL DE MATERIAL: Vopsea acrilica alba fara perle de sticla preamestecare aplicat prin pulverizare si cu un amestec de perle de sticla picurate si agregate antiderapante.				
CARACTERISTICILE 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 13197:2012 + 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 RL	uscata	Clasa (R)		R3	R3	R2	R2	R2
Vizibilitatea pe timp uscat/seceta	Coeficientul de luminanta in iluminare difuza Qd		Clasa (Q)	Q5	Q5	Q5	Q5	Q5	
	sau factor de luminanta β		Clasa (β)	B5	B5	B5	B5	B5	
	Coordonatele cromatice (x,y)		Trece/Nu trece	trece	trece	trece	trece	trece	
Rez. la alunecare	Unitati SRT		Clasa (S)	S4	S2	S1	S1	S2	
Uzura	Procent de uzura (marcaj rutier ramas)		%	100	99	98	96	93	
Tipul	Tipul sistemului de marcaj rutier		Tip I / II	I					
FARA TIMP DE PRELUARE: conf. UNE-EN 13197:2012+A1:2014			Clasa (T)	T2					

Data inceperii testului	22 iunie 2015	Data terminarii testului	17 iulie 2015
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CERTIFICAT DE TEST DE DURABILITATE Acest certificat este identic versiunii originale spaniole	Ref.	Data eliberarii	Director Laborator. <i>Semnatura indescifrabila</i> <i>Stampila rotunda legala a AETEC SA</i> D. Francisco J. Guarra	Referinta document 1-7 MC Rev.9 Pag. 1 din 2
	3520/PE-R-I	02 martie 2017		

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