FÉDÉRATION INTERNATIONALE
DE MOTOCYCLISME

CCR/004/2016 DUP

To:

- CCR Members
- FMNs and CONUs
- FIM Promoters
- FIA
- Circuits (CCR)
- FIM paint manufacturers and bodies concerned

14 April 2016

FIM New approved paint: Samoline Starting Grid

Dear Sir or Madam,

Please note that the FIM has successfully tested and so approved a new paint for the marking of the permanent Circuits. This new paint conforms to the FIM grip criteria and can be removed with high pressure water jet.

From now on, the paint to be used for the kerbs, the white lines along the track, for the starting grid and for any other marking on the track must be one of the following:

DREW PAINTS, INC. 09NS-Series W/B Circuit Marking Paint
SWARCO LIMBOROUTE Circuit line WBP
COLORIFICIO SAMMARINESE Samoline Antiskid paint (8550.0500) "*ex Vernice Autodromo*"
COLORIFICIO SAMMARINESE Samoline Starting Grid (white 8555.0050 or black 555.0099)
ORÉ PEINTURE Race Line

(see the manufacturers' contact details in enclosure)

The paint application method defined by the manufacturer shall be scrupulously followed.

Circuits shall keep at the disposal of the Safety Officer, the FIM Inspector or the Jury President, the paint order forms and invoices, so that it can be proved at any time that the paints used are the FIM approved ones.

We would like to draw your attention to the fact that other types of paint which are not mentioned above may also be approved. The procedure related to the test to be carried out in view of receiving the approval can be obtained through the CCR/FIM Administration.

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WWW.FIM-LIVE.COM

These tests could possibly be organised at the same time as the homologation circuit.

We remain at your disposal for any additional information you may require.

With best regards,

Paul DUPARC
CCR COORDINATOR

ENCLOSURE: Co-ordinates of paints manufacturers approved by the FIM and the technical data sheet and test reports of the new Samoline starting grid paint.

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SWARCO LIMBOROUTE Circuit line WBP
SWARCO LIMBURGER LACKFABRIK GmbH (Heidi EHLERT)
Robert - Bosch - Straße 17 D - 65582 Diez
Tél. : +49 (0) 6432 / 918422
Fax : +49 (0) 6432 / 918418
info.limburgerlackfabrik@swarco.com

SAMOLINE ANTISKID PAINT 8550.050
SAMOLINE STARTING GRID (WHITE 8555.0050 or BLACK 555.0099)
COLORIFICIO SAMMARINESE SA (Matthew VAGNINI)
Via del Camerario 7 RSM-47891 Falciano
REPUBLICA DI SAN MARINO Tél. : (+378) 05 499 05 515
Fax : (+378) 05 499 08 453
export@colsam.com

09NS-SERIES W/B CIRCUIT MARKING PAINT
DREW PAINTS, INC. (Keith DiBrino) PO Box 29139,
Portland, Oregon 97296-9139
Tél. : (+1) 800 924 7874
kdibrino@drewpaints.com

RACE LINE
ORÉ PEINTURE (Edouard CHAMPALBERT)
ZAC du Bon Puits
F - 49480 St-Sylvain d'Anjou Tél. : (+33) 2 41 21 14 10
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e.champalbert@ore-peinture.fr c.dunaye@ore-peinture.fr

colorificio sammarinese

Scheda tecnica
Technical data sheet

SERIES 8555.0000 SAMOLINE STARTING GRID

Use
For horizontal antislip track marking in racing circuits.

General features
Product based on special quick drying acrylic resins, water-soluble covering pigments and charges at specific effects.
As a water-based product it satisfies the existing European rules in subject of safety and it has the following features:

- it is highly weather-resistant;
- it has elevated antislip properties (test report GFC N°075L del 22.02.2016);
- it is removable with high pressure water jet machines;

Technical features (data gathered at the temperature of 20°C)

Viscosity	cps	2000 ± 100	Method ASTM D-2196
Specific gravity	g/cm^3	1,620 ± 0,050	Method UNI-8360
Solid content	%	74 ± 2	Method UNI-8906
Ph		9 ± 0,4	Method UNI-8311
Covering power	%	98 ± 2	Method UNI-ISO 6504/1
Colour		White, red, yellow	Method CIE-LAB 1976
Drying time	Minutes	60	Method UNI-8362
Theorical spreading rate	mq/lt	4 - 5 (with 60-70 microns dft)	Method SM-15
Thinner	code	water	
Dilution	%	2 – 5	
Opening to the traffic	hours	4 – 6 in accordance with the temperature and with relative air humidity lower than 70%.	

Suggested application modalities

By Air-Spray (paint atomized by air)	With proper mark line air spray equipment. Suggested thickness 60-70 micron.	
By spray gun	nozzle Pressure of tank Pressure outlet paint	mm 3 - 5 atm 2 - 3 atm 4 - 6
Given the particular size of some charges contained in Samoline paints, airless machines are not suitable for the application. Road marking machines and tools should be washed with water immediately after the use. Any hardened part of the paint can be removed with Nitro thinner.		

Recommended painting cycles
- Apply on surfaces free from oil, grease and tire tracks.
- Do not apply with fog and with temperatures of support lower than +8° C to not compromise the drying.
- Do not apply in case of imminent rain.
- the removal must be performed with a pressure water jet machines (best with hot water 50/60° C) at high pressure 140/160 atm.
- The product fears the cold.
- Store at 10°C - 30°C.

The product stored properly is guaranteed for 10-12 months.

07/03/2016

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TEST REPORT N° 075/L DATED FEBRUARY 22ND, 2016

Laboratory	GFC - Chimica S.r.l. Viale Marconi, 73 44122 Ferrara
Customer	Colorificio Sammarinese S.p.A. Via del Camerario, 7 47891 Falciano Repubblica di San Marino
Date of measurements	18.02.2016
Product	SERIES 8555 SAMOLINE STARTING GRID
Contact person	Mr. Andrea Tini
Contact person	Dr. Elena Minelli

1 Introduction

The white road marking has been examined on behalf of the company Colorificio Sammarinese Spa of the Republic of San Marino, hereinafter referred to as client, executed with the product mentioned above and applied at Misano World Circuit.

As agreed with the customer and according to UNI EN 1436:2008, on this road marking has been carried out the determination of the skid resistance tester (SRT).
The same SRT measurement has been carried out on a portion of asphalt adjacent to the submitted road marking, in some specific areas selected by the customer who was present, Mr Andrea Tini, at the measures execution stage.

2 Results

2.1 Determination of the Skid Resistance Tester (SRT)

Results obtained are reported on the following table:

Asphalt without road marking. Misano circuit – area adjacent to the Marlboro bridge		
Parameter	*Medium value* *Minimum value* *Maximum value*	*Classification according to UNI EN 1436:2008 (referred to the medium value)*
SRT	77±3 76 77	-

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Via G. Marconi 73 - 44122 Ferrara • Tel. (39) 0532 773742 - Fax (39) 0532 773595 • Sito Web: www.gfcchimica.com
Reg. Imprese, Cod. Fisc. e P.IVA 01153860382
R. E. A. 167744 • Cap. Soc. € 967.584 i.v.

Product: SERIES 8555 SAMOLINE STARTING GRID **Misano circuit – area adjacent to the Marlboro bridge**		
Parameter	*Medium value* *Minimum value* *Maximum value*	*Classification according to UNI EN 1436:2008 (referred to the medium value)*
SRT	74±3 73 74	**S5**

SRT difference[1] between asphalt and road marking	**77 – 74 = 3 SRT units**

The uncertainty values are reported as expanded measurement uncertainty which gives a level of confidence of 95% (coverage factor K=2).

For detailed information on measurements points please refer to the enclosed "Individual Tests Reports".

GFC Chimica s.r.l.
L'Analista
Ing. Cristina Pocaterra

GFC Chimica s.r.l.
Il Responsabile di Laboratorio
Dr. Arlen Ferrari

This document, consisting of two papers, entirely reproducible only by the Customer, without comments, omissions, alterations or additions, reports tests results that refers to the examined samples only.

END OF REPORT

[1] The SRT difference requested by FIM shall be 5 units max (ref. document supplied by the customer)

DOCUMENT N. 1

1. Product applied						
Product name and code						
Producer name and address						
Application date and time						
Application device						
Notes on the application						
2. Testing area						
Place	Misano circuit – area adjacent to the Marlboro bridge					
Date and time	18/02/2016 time 13:15					
Weather data	**T(°C) road surface** /		**UR(%) of air** /			
Kind of road surface	New asphalt, like Misano truck (year 2015)					
Roughness of surface	High					
Reporting point notes						
3. Measured experimental data						
Calibration R_L/Q_D (R_L=174 ; Q_D=161mcd lx^{-1} m^{-2}) **Acceptance limits: ± 15%**			**% error R_L = /** **% error Q_D = /**		**Reading R_L = /** **Reading Q_D = /**	
R_L on dry surface (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
R_L on wet surface (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
Q_d (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
Chromatic coordinates X	/	/	/	**Average: /**		
Chromatic coordinates Y	/	/	/	**Average: /**		
Coefficient β (Y/100)	/	/	/	**Average: /**		
SRT (SRT unit)	76	76	77	77	77	**Average:** 77
Water temperature (°C)	**18.40**		**N° of pendulum swings executed**			**5**
Operator	**Cristina Pocaterra**		**Instrument used**			**APP-0149 APP-0078**
Wet conditions (only for R_L)	**☐ Liters of water = 3; ☐ Water fall height = 0.3m** **☐ Waiting time before performing the test = 60±5 s**					
Notes	The test has been carried out directly on the asphalt without marking road.					

DOCUMENT N. 2

1. Product applied [1]						
Product name and code	SERIES 8555 SAMOLINE STARTING GRID					
Producer name and address	Colorificio Sammarinese SpA					
Application date and time	18.02.2016 time 11:00					
Application device	Spray gun					
Notes on the application						
2. Testing area						
Place	Misano circuit – area adjacent to the Marlboro bridge					
Date and time	18/02/2016 ore 13:20					
Weather data	**T(°C) road surface** /		**UR(%) of air** /			
Kind of road surface	New asphalt, like Misano truck (year 2015)					
Roughness of surface	High					
Reporting point notes						
3. Measured experimental data						
Calibration R_L/Q_D (R_L=174 ; Q_D=161mcd lx^{-1} m^{-2}) **Acceptance limits: ± 15%**			**% error R_L= /**		**Reading R_L = /**	
			% error Q_D= /		**Reading Q_D = /**	
R_L on dry surface (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
R_L on wet surface (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
Q_d (mcd lx^{-1} m^{-2})	/	/	/	/	/	**Average: /**
Chromatic coordinates X	/	/	/	**Average: /**		
Chromatic coordinates Y	/	/	/	**Average: /**		
Coefficient β (Y/100)	/	/	/	**Average: /**		
SRT (SRT unit)	73	74	74	74	73	**Average:** 74
Water temperature (°C)	**18.80**		**N° of pendulum swings executed**			**5**
Operator	**Cristina Pocaterra**		**Instrument used**			**APP-0149 APP-0078**
Wet conditions (only for R_L)	**☐ Liters of water = 3; ☐ Water fall height = 0.3m ☐ Waiting time before performing the test = 60±5 s**					
Notes	White road marking					

[1] All the information on the product and its application are indicated as declared by the customer.

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Colorificio SAMMARINESE	INSPECTION VISIT TO THE CUSTOMER	M. 04.04 Rev. 0

-SEC. 1: SUBJECT OF THE REPORT

DOCUMENT PROGRESSIV N° Rel. 315	RIC.: 0030 / ___	Filled in by:CRR&S DC	DATE: 04/03/2016
OBJECT: White Starting Grid Removal test at Misano World Circuit			

SEC.2 : EXECUTION MODALITY

Customer:	Misano Circuit
Place:	Misano Adriatico
Production:	one 14 liter drum
Surface:	Draining asphalt
Device:	High pressure washer with boiler
Test:	Removal test through pit line hidro washing
Previous reports:	
Representatives:	Eng. Guado , Mr. Uncini

Purpose
After 15 days from applying three starting lines last February 18th 2016, on which has been carried out the SRT test for the Skid resistance (see the GFC reporting test n°075/L of 22/02/2016), the high pressure washer removal test has been executed.

Instrument
High pressure washer with boiler, water degree 55/60°C with supply pressure of 150-160 bar.

Tests
Before proceeding to the test it has been ascertained that paint was in good conditions and it didn't show any alteration after the plentiful rainfall of the previous days.
The washing has been executed with 55/60 °C water and with 140/150 bar atomization pressure.
The lines removal test has been carried out with both single and double water jet passing in a satisfactory and speedy way.

SEC. 3 CONCLUSIONS

The test can be considered positive.

ENCLOSED DOCUMENTS: Photo before and after the hydro washing test

Safety Data Sheet	specification	
Technical Data Sheet	other	Signature: Andrea Tini

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