

test report

date: 7.11.2015
№ : с 9408 / 7464
application : 12 лист

General Manager Parsian Touf Sarira
Engineer Azadeh Abrishamkar

hi

we considered the submitted documents dated 20.09.2015 No. tuv / t / 119, please see the test report (Pourghazian Crackle Paint).

Inspector Metra used your sample, and gave a test report.

Operator: laboratory

Yours faithfully

CEO

Metra – Amirkabir

Institute research paint polymer, coatings,
materials, corrosion

Ali Bozorgi

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test report

Flexibility	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ASTM D522
Test device \ code	Mandrel/1530
Sample(2)	Metal plate covered DFT of WP : 30 μm DFT of SP : 24 μm
Laboratory conditions	temperature 23 \pm 2 ($^{\circ}\text{C}$) humidity . Estimate : 35 \pm 5 (%)
Number works	2
Results	
Code Sample	result
Wp	8
Sp	4
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Solid content	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ASTM D2369
Test device \ code	oven
Sample(2)	Liquid paint
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35±5 (%)
Number works	2
Results	
Code Sample	result
Wp	26
Sp	25.5
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Adhesion (in section)	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ASTM D3359
Test device \ code	в pazpeze
Sample(2)	Metal plate and polycarbonate coated plates DFT of WP : 30 μm DFT of SP : 24 μm
Laboratory conditions	temperature 23 \pm 2 ($^{\circ}\text{C}$) humidity Estimate : 35 \pm 5 (%)
Number works	2
Results	
Code Sample	result
Metal plate covered Wp	5B
Polycarbonate plate covered WP	5B
Metal plate covered SP	5B
Polycarbonate plate covered SP	5B
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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density	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ISO2811
Test device \ code	Pycnometer
Sample(2)	Liquid paint
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35±5 (%)
Number works	2
Results	
Code Sample	result
Wp	0.99
Sp	0.96
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Fineness of grinding	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
Date of testing	26.10.2015
Method test	ASTM D1210
Test device \ code	Hammer meter
Sample(2)	Liquid paint
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35± 5 (%)
Number works	2
Results	
Code Sample	result
Wp	>100
(1): Material manufacturer / name and code for testing (2): Sample of the preparation is made by the customer	

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Объем покрытия	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	The metra method(2)
Test device \ code	Pfund cryptometer
Sample(2)	Liquid paint
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35±5 (%)
Number works	2
Results	
Code Sample	result
Wp	6.8 метр квадрат
Sp	9.5 метр квадрат
(1): Material manufacturer / name and code for testing	
(2): The method was based on a book "paint & coating testing manual" Joseph V. koleske	
(3): Sample of the preparation is made by the customer	

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First drying time	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ASTM D1640
Sample(2)	Liquid paint Thickness of wet paint: 60 μ m
Laboratory conditions	temperature 23 \pm 2 ($^{\circ}$ C) humidity Estimate : 35 \pm 5 (%)
Number works	2
Results	
Code Sample	result
Wp	2 Minutes
Sp	4 Minutes
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Gloss		
Customer name	Parsian Touf Sarira	
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP	
	Pourghazian crackpaint silver SP	
	Pourghazian crackpaint Fluorescent Violet FP	
Date of testing	26.10.2015	
Method test	ASTM D523	
Sample(2)	Liquid paint Thickness of wet paint: 60 μ m	
Laboratory conditions	temperature 23 \pm 2 ($^{\circ}$ C) humidity Estimate : 35 \pm 5 (%)	
Number works	3	
Results		
Code Sample	Result(60 $^{\circ}$)	Result(85 $^{\circ}$)
Wp	1.9	3.4
Sp	13.8	37.9
FP	1.0	7.8
(1): Material manufacturer / name and code for testing		
(2): Sample of the preparation is made by the customer		

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Test scratch	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	26.10.2015
Method test	ISO 1518
Sample(2)	Polycarbonate coating
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35±5 (%)
Number works	2
Results	
Code Sample	result
Wp	2000
Sp	2000
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Water Resistance	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	28.10.2015
Method test	ISO 105
Sample(2)	Polycarbonate coating
Test mode	Tap water: 25 °C Test duration: 72 часа
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35± 5 (%)
Number works	2
Results	
Code Sample	result
Wp	Does not depart and adherence rate
Sp	Does not depart and adherence rate
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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Resistance UV (ultraviolet)	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP Pourghazian crackpaint silver SP
Date of testing	28.10.2015
Method test	ASTM G154
Sample(2)	STEEL coating (150*100*1)mm
Test mode and Code	ATLAS UV 2000 /1541
EXPOSURE MODE	4 hours UV EXPOSURE / 4 hours condensation
Type fluorescent lamp	UVA - 340nm
Type thermometer	Black panel thermometer (BPT)
The radiation intensity (W.m-2.nm-1)	0.77
BPT during exposure to UV (ultraviolet) (° C)	60
BPT during exposure to moisture (° C)	50
Nominal thickness of dryness (µm)	24
Test duration (hours)	72
Laboratory conditions	temperature 23±2 (°C) humidity Estimate : 35± 5 (%)
Number works	1
Results	
Code Sample	result
Wp	No visible discoloration
Sp	No visible discoloration
(1): Material manufacturer / name and code for testing (2): Sample of the preparation is made by the customer	

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Moisture resistance	
Customer name	Parsian Touf Sarira
Material manufacturer / name and code(1)	Pourghazian crackpaint white WP
	Pourghazian crackpaint silver SP
Date of testing	28.10.2015
Method test	цифровой камере влажности /1524
Sample(2)	ABS покрытый (100*100*10)mm
EXPOSURE MODE	72 час
Test mode	Temperature 40 °C± 2 ,100% humidity
Compilation date test	30.10.2015
Laboratory conditions	Temperature 23 °C ± 2 ,35±5 % humidity
Number works	1
Results	
Code Sample	result
Wp	Absence of visible discoloration and blister, paint Does not depart and adherence rate
Sp	Absence of visible discoloration and blister, paint Does not depart and adherence rate
(1): Material manufacturer / name and code for testing	
(2): Sample of the preparation is made by the customer	

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