

TEST REPORT

No. : SHIN2107051035MR-01

Date : Jan 18, 2022

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CUSTOMER NAME: SHANGHAI ROVAL ZINC RICH PAINT CORPORATION
ADDRESS: NO.393 FENGGONG RD,JIADING MALU SHANGHAI,CHINA

This Report cancels and supersedes the Report No.: SHIN2107051035MR dated: Jan.12 ,2022 issued by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd, original report will be invalid from today.

Sample Name : ROVAL Cold Galvanizing compound

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : 15629619
Date of Receipt : Jul 21, 2021
Testing Start Date : Jul 21, 2021
Testing End Date : Jan 10, 2022
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Service (Shanghai)Co., Ltd.

Crystal Wan
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Neutral Salt Spray Test	ISO 9227:2017	See result	/

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 / : Not Apply to the judgment.



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Test Item: Neutral Salt Spray Test

Sample Description: Metal part

Pretreatment: Scribe a 0.5mm wide line through coating to the substrate with Erichsen Mod.463

Test Method: ISO 9227:2017

Test Condition:

Concentration of solution collected: (50±5)g/l NaCl

Chamber temperature: (35±2)°C

Volume of salt solution collected: (1.5±0.5) ml/(80cm²·h)

pH of collected solution at (25±2)°C: 6.5~7.2

Exposure period: 3192h

Test Result:

Exposure period	Sample	Degree of Blistering (See note 1)	Degree of Flaking (See note 2)	Degree of Cracking (See note 3)	Degree of Rusting (See note 4)
168h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
336h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
504h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
672h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0



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Exposure period	Sample	Degree of Blistering (See note 1)	Degree of Flaking (See note 2)	Degree of Cracking (See note 3)	Degree of Rusting (See note 4)
840h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1008h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1176h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1344h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1512h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1680h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
1848h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
2016h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0



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Exposure period	Sample	Degree of Blistering (See note 1)	Degree of Flaking (See note 2)	Degree of Cracking (See note 3)	Degree of Rusting (See note 4)
2184h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
2352h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
2616h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
3120h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0
3192h	1	0(S0)	0(S0)	0(S0)	Ri0
	2	0(S0)	0(S0)	0(S0)	Ri0
	3	0(S0)	0(S0)	0(S0)	Ri0

Notes:

- Degree of Blistering refers to ISO 4628-2:2016, rating 0 is the best and rating 5 is the worst. If the coating is assessed as having blisters of quantity 0, size 0, degree of blistering is 0 (S0).

Rating scheme for designating the quantity of defects

Rating	Quantity of defect
0	none, i.e. no detectable defects
1	very few, i.e. small, barely significant number of defects
2	few, i.e. small but significant number of defects
3	moderate number of defects
4	considerable number of defects
5	dense pattern of defects



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Rating scheme for designating the size of defects

Rating	Size of defect
0	not visible under $\times 10$ magnification
1	only visible under magnification up to $\times 10$
2	just visible with normal corrected vision
3	clearly visible with normal corrected vision (up to 0.5mm)
4	0.5mm to 5mm
5	larger than 5mm

2. Degree of Flaking refers to ISO 4628-5:2016, rating 0 is the best and rating 5 is the worst. If the coating is assessed as having flaked area of quantity 0, size 0, degree of flaking is 0 (S0).

Rating scheme for designating the quantity of flaking

Rating	Flaked area %
0	0
1	0.1
2	0.3
3	1
4	3
5	15

Rating scheme for designating the size of areas exposed by flaking

Rating	Size of flaked areas (largest dimension)
0	not visible under $\times 10$ magnification
1	up to 1mm
2	up to 3mm
3	up to 10mm
4	up to 30mm
5	larger than 30mm



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3. Degree of Cracking refers to ISO 4628-4:2016, rating 0 is the best and rating 5 is the worst. If the coating is assessed as having cracks of quantity 0, size 0, degree of cracking is 0 (S0).

Rating scheme for designating the quantity of cracks

Rating	Quantity of cracks
0	none, i.e. no detectable cracks
1	very few, i.e. small, barely significant number of cracks
2	few, i.e. small but significant number of cracks
3	moderate number of cracks
4	considerable number of cracks
5	dense pattern of cracks

Rating scheme for designating the size of cracks

Rating	Size of cracks
0	not visible under x10 magnification
1	only visible under magnification up to x10
2	just visible with normal corrected vision
3	clearly visible with normal corrected vision
4	large cracks generally up to 1mm wide
5	very large cracks generally more than 1mm with

4. Degree of Rusting refers to ISO 4628-3:2016, rating Ri 0 is the best and rating Ri 5 is the worst.

Degree of Rusting	Rusted area %
Ri 0	0
Ri 1	0.05
Ri 2	0.5
Ri 3	1
Ri 4	8
Ri 5	40-50



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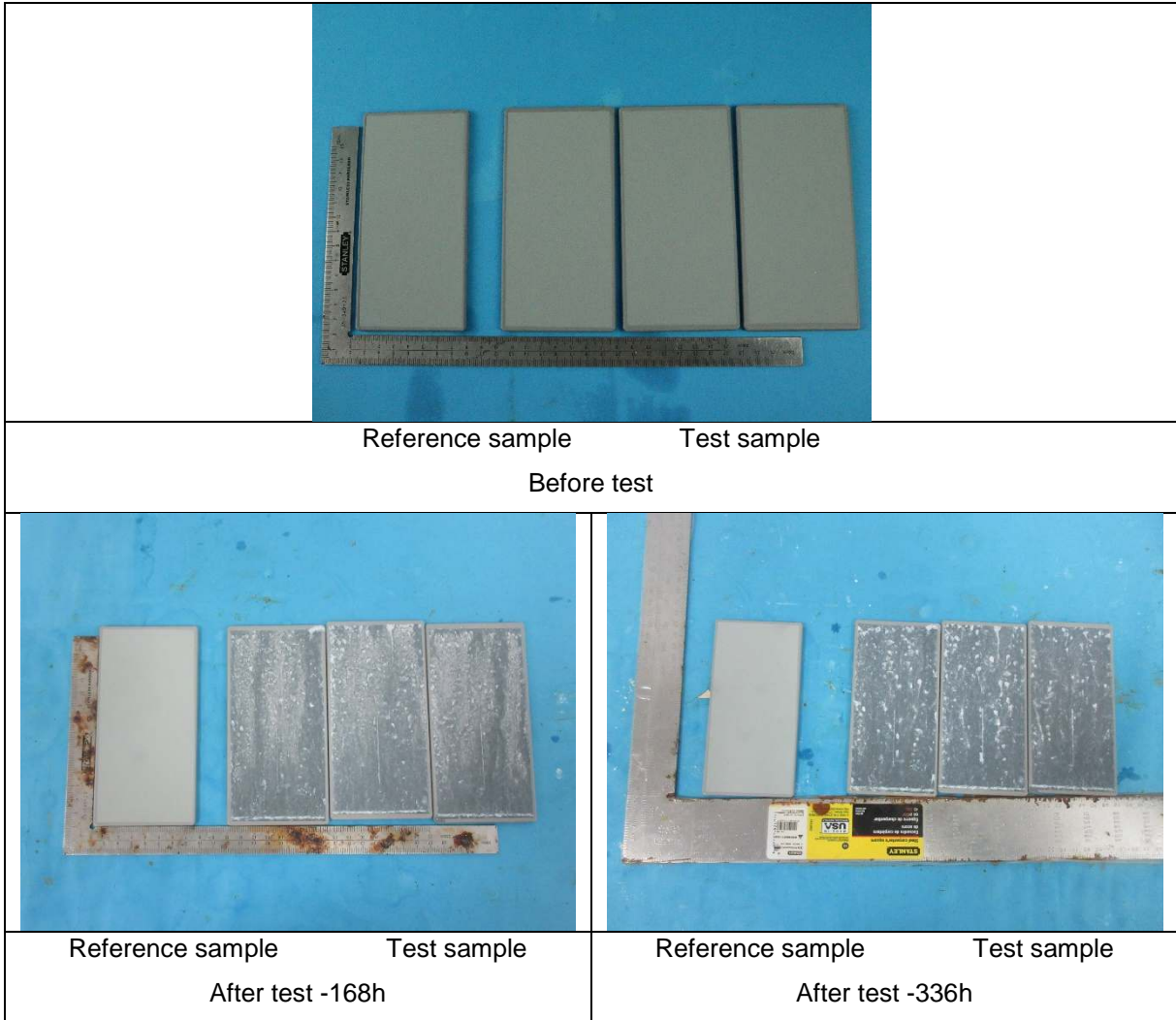
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Test Photo:



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<p>Reference sample Test sample After test -504h</p>	<p>Reference sample Test sample After test -672h</p>
	
<p>Test sample After test -840h</p>	<p>Test sample After test -1008h</p>



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<p>Test sample After test -1176h</p>	<p>Test sample After test -1344h</p>
<p>Test sample After test -1512h</p>	<p>Test sample After test -1680h</p>



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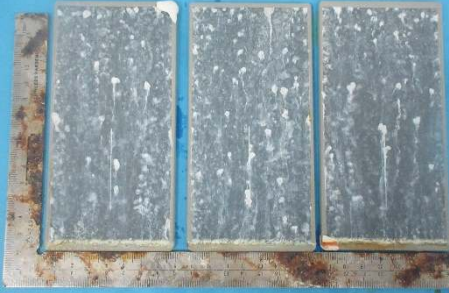


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<p>Test sample After test -1848h</p>	<p>Test sample After test -2016h</p>
	
<p>Test sample After test -2184h</p>	<p>Test sample After test -2352h</p>



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<p>Test sample After test -2616h</p>	<p>Reference sample Test sample After test -3120h</p>
<p>Reference sample Test sample After test-3192h</p>	

Note: Report SHIN2107051035MR change to SHIN2107051035MR-01.

<p>Revise Content</p>	<p>This report updates the test result description.</p>
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***** End of report*****

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