

# SETAQUA 6536

Launch package



David Qiu

TSBD GI metal & Marine Protective Coatings



# Value Proposition 产品定位

- 2.5% OH content WB secondary 2.5%羟基含量的二级分散体
- Setaqua 6536 is an economic emulsion, suitable for Commercial Transport, ACE and Machinery. 用于一般工业漆的经济型面漆产品
- Paint systems where low co-solvents levels and a high layer thickness without foaming are required. 可以做低VOC配方
- Good compatibility with hydrophobic isocyanates 可以和疏水型异氰酸酯固化剂混溶
- High gloss clearcoats and topcoats for drying at room temperature as well as drying at elevated temperatures. 高光泽色漆和清漆
- Blending partner for our other water borne two-component resins. 也可以和Allnex其他乳液混拼
- WB Baking coating. 氨基烤漆

# CHARACTERISTICS OF SETAQUA® 6536

☐ SETAQUA 6536, acrylic polyol emulsion

SETAQUA 6536, 羟基丙烯酸乳液, WB 2K PU的标准树脂

<u>Solids content (wt %)</u>	<u>45</u>
<u>固含</u>	
<u>pH (at 25°C)</u>	<u>8.0</u>
<u>PH值</u>	
<u>OH% on non-volatiles</u>	<u>2.5%</u>
<u>固体份羟基含量</u>	
<u>Particle Charge</u>	<u>Anionic</u>
<u>阴离子</u>	

Thicker film without foaming possible (> 80um DFT, by suitable SPF and process)  
可获得较高的漆膜厚度(恰当的配方和工艺可达80um干膜)

High gloss (> 90 GU/60°)  
高光

Good appearance  
漆膜外观好

For pigment grinding  
直接颜料研磨

Abrasion and chemical resistance  
耐磨及化学品性

可搭配疏水性固化剂



# GUIDING FORMULATION FOR HIGH GLOSS YELLOW TOPCOAT 黄色标准配方

Raw material 原材料 Millbase	Ratio %
Di Water 去离子水	8.8
Additol VXW 6588	2.5
Additol VXW 6394	0.8
Additol VXW 6386	0.3
Additol VXW 6360	0.2
Bayferrox 3920 铁黄	11.5
TOTAL 共计	24.1

Hardner, Part B	
Tolonate HDT-LV	60
BGA	40

Raw Materials	Setaqua 6536	Stq 6515
MILLBASE 磨料	23.2	23.2
resin	75	75
Tego 4100	0.2	0.2
Additol VXW 6580	0.2	0.2
Additol VXW 6386	<b>1</b>	<b>1</b>
30% additol VXM 6388 in water	0.4	0.4
Total	100.0	100.0
performance of part A	OK	OK

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# GUIDING FORMULATION PERFORMANCE

手搅拌+ 喷涂 Mix by hand+ Air spraying

NCO = 1.4

Setaqua 6536

Stq 6515

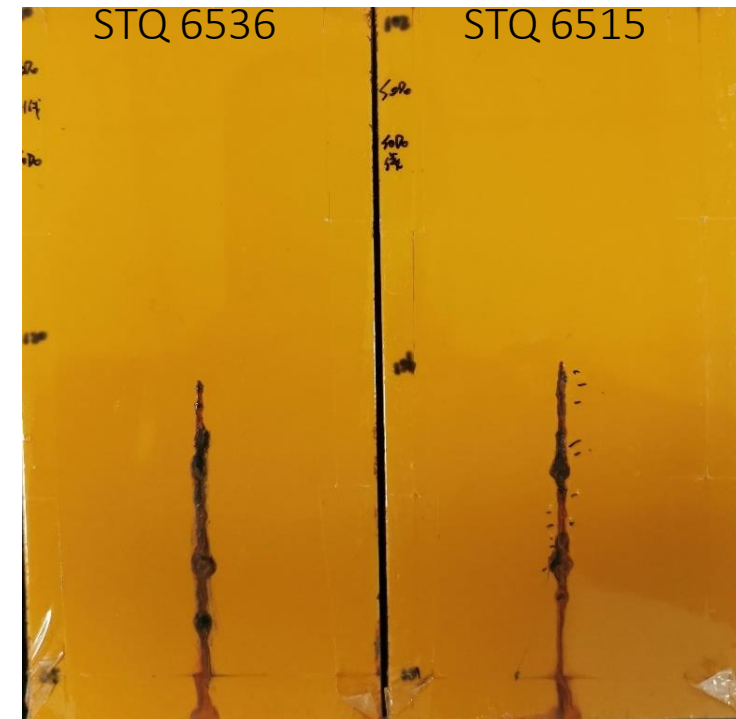
1	Flash time闪干	10 min	10 min
2	Bake temperature烘烤温度	60°C	60°C
3	Bake time烘烤时间	40 min	40 min
4	Thickness漆膜厚度	40 -50 μ	40-50 μ
5	hardness----Mitsubishi 铅笔硬度	H	HB
6	gloss 20°光泽	82.9	80
7	gloss 60°光泽	90	89
21	DOI	93	85
22	Film hardness,1day,60C 30min 摆杆硬度	26.6	28
23	Film hardness,10day 60C 30min摆杆硬度	103.9	81
24	Hardness----Mitsubishi 铅笔	H	HB
25	Drying time at Room temperature, T1 Min表干	40	40
26	Drying time at Room temperature, T3 Hrs小时	3	4
27	Acid resistance,0.1 N H2SO4 耐酸7天	Good	Good
28	Alki resistance,0.1 n NaOH耐碱 7天	Good	Good
29	Gasline 48hours耐汽油	Good	Good
30	water resistance,40 C 240H 耐水	Good	Good
31	BFFT rechecking,mixig after40C 2hr,不起泡膜厚	68um	65um

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# Corrosion performance 配套耐盐雾

	STQ 6515	STQ 6536
VOC, topcoat, g/L	130	130
T3 drying,hr	2.9	2.5
Gloss,60	85	86
Konig hardness		
60C 40min,	34	48
1day,	112	96
7days	117	108
746 hr SST	No blistering, few blistering at scribe line	No blistering

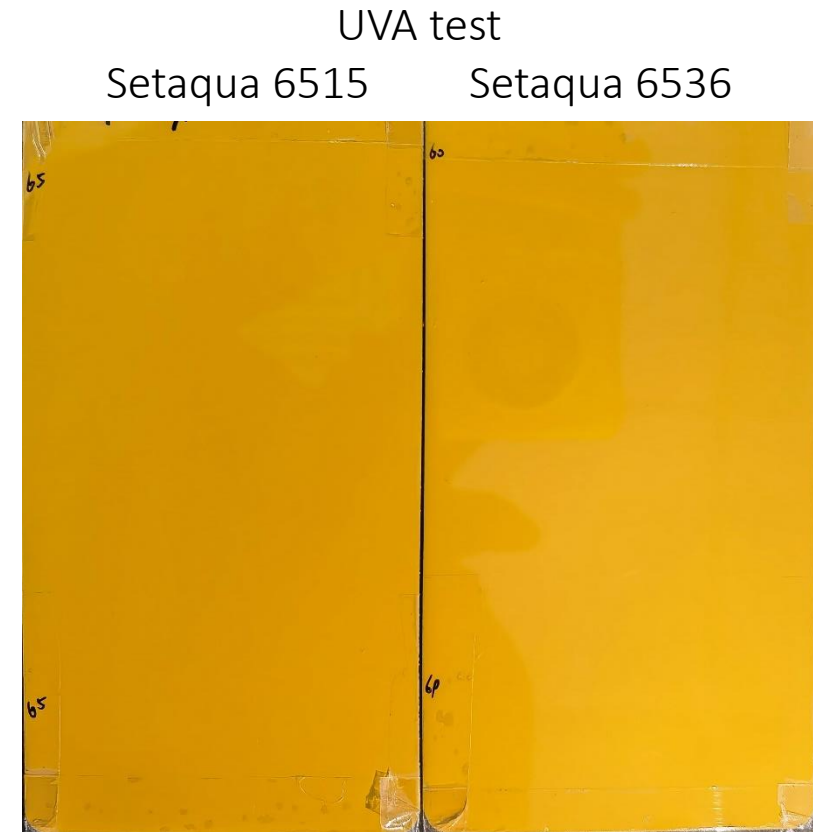
Substrate, blasted panel 喷砂钢板  
primer: EP384+EH2168, 60-70um  
DFT  
Topcoat: 40-50 um DFT,  
746hr salt spray test,



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# Weathering data –人工加速老化

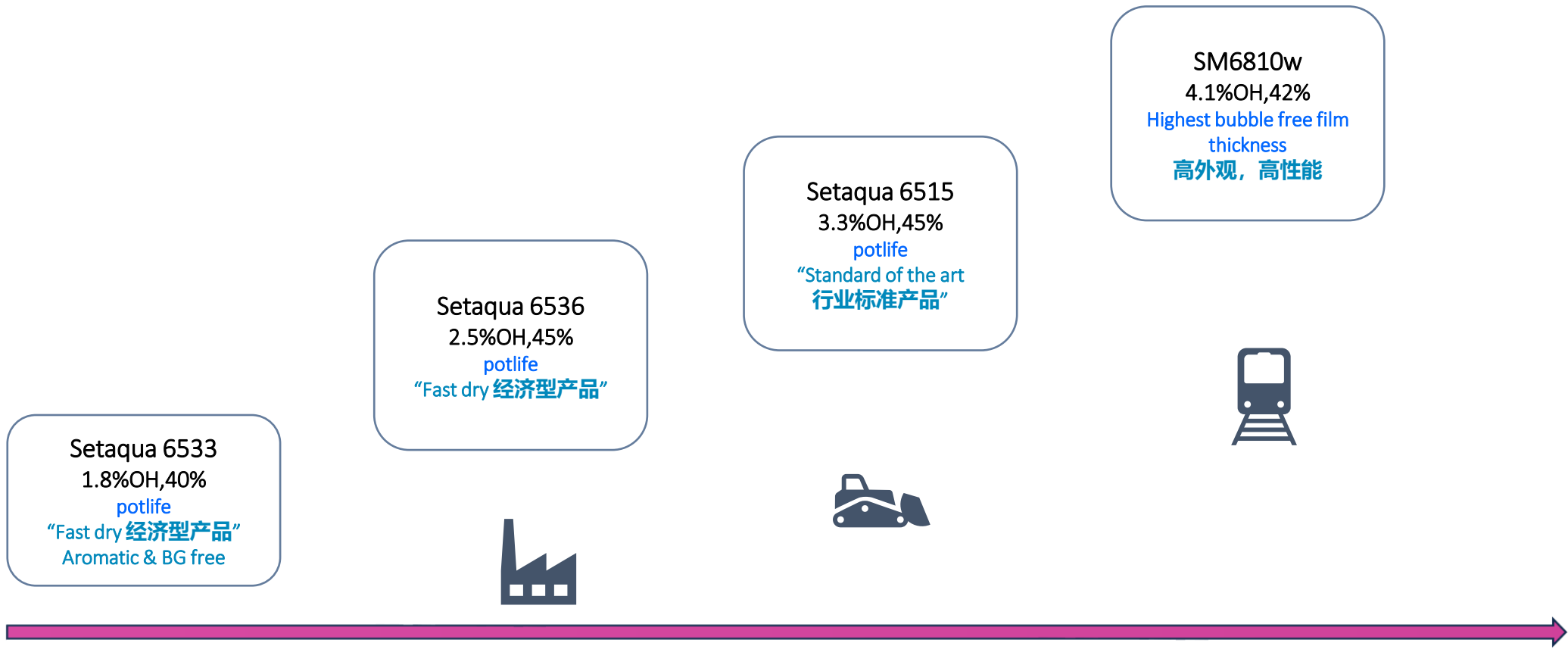
Weathering test		SETAQUA 6515	SETAQUA 6536
Original	gloss 60°	90.5	91.4
UVA 808hr	gloss 60°	86.3	87.1
	$\Delta E$	0.7%	0.7%
	gloss retention	95.4%	95.3%
UVB 807hr	gloss 60°	83.5	84.2
	$\Delta E$	0.82	0.8
	gloss retention	92.3%	92.1%
Q-Sun 804hr	gloss 60°	77	82
	$\Delta E$	0.69	0.53
	gloss retention	85.1%	89.7%



# Key WB polyols for polyisocyanate curing 2k PU for Metal

All these APO can be blend-using.

Also Have Setaqua 6533 (1.8% OH) for blending to improve drying and reduce total cost.



Higher OH content, Higher appearance & performance



# SETAQUA® 6536 – INDUSTRIAL BENCHMARK for WB 2K



## Applications:

Setaqua 6536是带有2.5% 羟基（基于不挥发组分理论计算值）的丙烯酸酯多元醇乳液，应用于耐用、耐磨、耐化学品双组分水性聚氨酯体系。可以制备低VOC水性聚氨酯涂料，同时可以满足高膜厚不起泡等要求，适用于高光漆、面漆等水性双组分工业漆，可室温自干或烘烤成膜。与公司的其他双组分产品有着良好的相容性。应用的领域有商业运输，ACE，工程机械等。

## Features

- 优异的漆膜外观，高光泽高丰满度
- 极好的漆膜透明度
- 优异的耐久性、耐磨性和耐化学品
- 可制备低VOC产品
- 高膜厚不起泡，与相关产品相容性好
- 与疏水性异氰酸酯有良好的混溶性，可手搅
- 与异氰酸酯固化剂搭配，主要用于水性工业漆，ACE等

**Non-Volatiles:** 44 - 46 % (ISO 3251, STM 001G)

**Viscosity:** 0.30 - 2.0 Pa.s (ISO 3219, STM 012J)

**Acid value (as such):** 8.7 - 11.1 mg KOH/g (ISO 3682, STM 303A)

**pH:** 7.0 - 9.0 (STM 007A)

## Chart Title

— Stq 6515 — Stq 6536



# 联系方式



有关更多技术信息和咨询，请联系您的allnex代表或技术服务和业务

TSBD : [David.qiu@allnex.com](mailto:David.qiu@allnex.com)

Technical Manager: [Phenix.zhu@allnex.com](mailto:Phenix.zhu@allnex.com)

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THANK YOU FOR YOUR ATTENTION



ANY QUESTIONS?

Please contact: [EMAIL ADDRESS]



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