

Acronal[®] 7646
for Matt Clear Topcoat

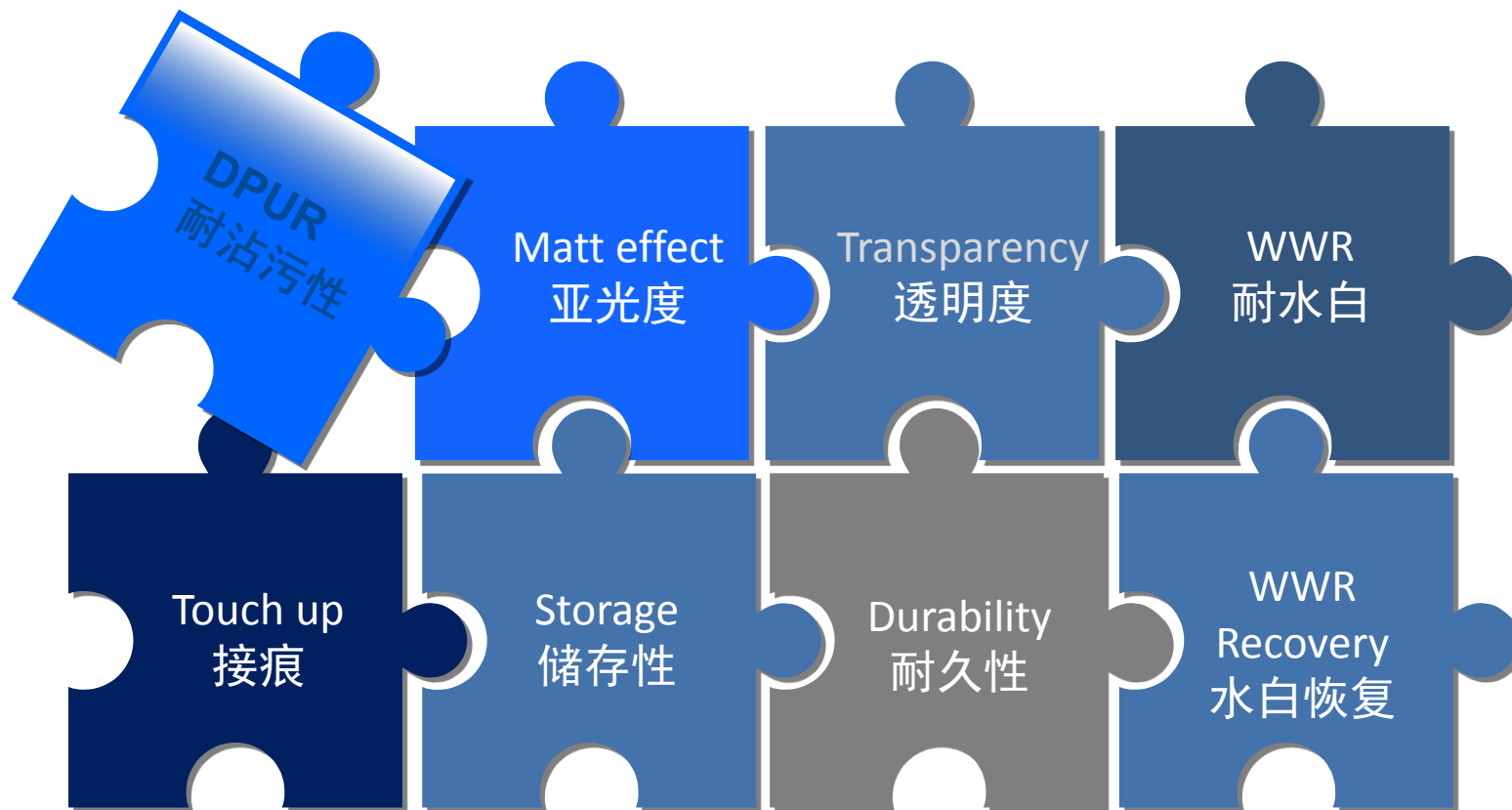
亚光透明罩面漆乳液



We create chemistry

General Requirements

亚光透明面漆性能一般要求



Acronal® 7646

Product description

产品介绍



Acronal® 7646 is a finely divided polymer dispersion with a medium viscosity which is designed for matte clear topcoat. It forms films that are matte, transparency and tack-free at temperatures in the region of 25-30° C. Films formed by Acronal® 7646 have high water resistance and high light fastness, and they are very resistant to saponification and weathering. They have very little tendency to blush, even if they are exposed to water for long periods.

Acronal® 7646是一种具有中等黏度的细微分散乳液聚合物，用于亚光透明罩面涂料。它在20-25°C环境中干燥成亚光透明涂膜，涂膜坚韧，具有柔性及抗粘连性。Acronal® 7646形成的膜具高耐水性、耐光性，优异的抗皂化性及耐候性。即使在水中长时间浸泡，涂膜也不易水白。

Acronal® 7646

Features & Benefits

产品特性

Features

- Excellent balance of matte and transparency
优化设计的亚光效果及透明度
- Good dirt pickup resistance
良好的抗沾污性能
- Very good weatherability
优异的耐候性
- Very good water whitening resistance
优异的耐水白性能
- Resistant to saponification
特别优异的抗皂化性能
- APEO-free
不含APEO

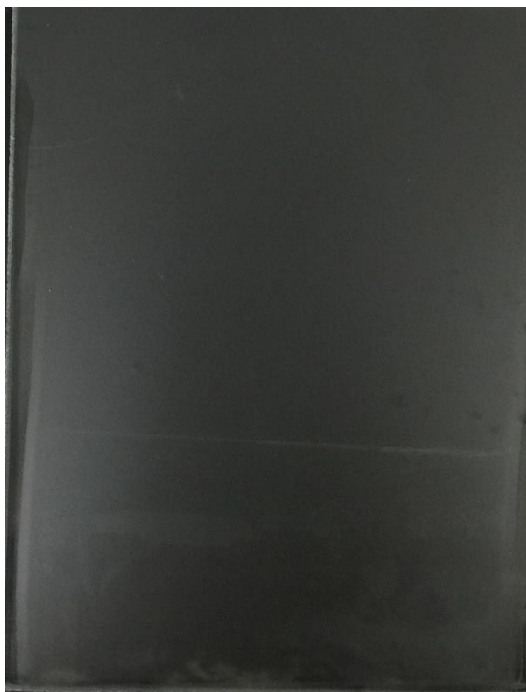
Benefits

- Design for matte clear topcoat
专为亚光透明罩面涂料设计
- Excellent exterior durability
优秀的户外耐久性
- Outstanding blushing resistance
突出的耐水白性能
- Tough, flexible and tack-free
涂膜坚韧，具有柔性及抗粘连性

Acronal® 7646

WWR of binder film

乳液膜耐水白性能



100um wet film, 30mins dry at 50C, 24hrs water immersion
100um湿膜厚度，50C干燥30分钟，浸水24小时。

The dispersion film shows good water whitening resistance
Acronal Matt 乳液膜表现出良好的耐水白性能。

Acronal[®] 7646

WWR of Clear-topcoat (RT)

亚光透明面漆耐水白性(常温)

100um wet film, 30min@50C, 24hrs water immersion
100um湿膜厚度, 50C干燥30分钟, 常温浸水24小时。



24hrs water immersion
浸水24小时后



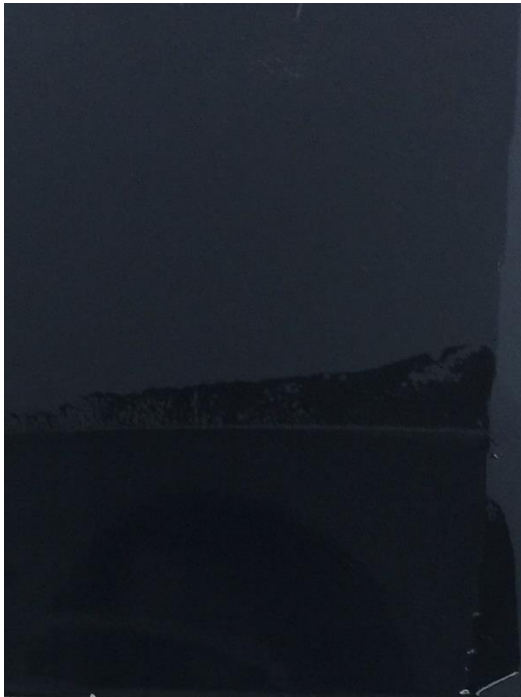
after dry
干燥后

The clear topcoat film shows good water whitening resistance
亚光透明面漆表现出良好的耐水白性能。

Acronal[®] 7646

LT WWR of Clear-topcoat 亚光透明面漆耐水白性(低温)

100um wet film, 5hrs@5C, 16hrs water immersion
100um湿膜厚度, 5C干燥5hrs, 浸水16小时。



16hrs water immersion
浸水16小时后



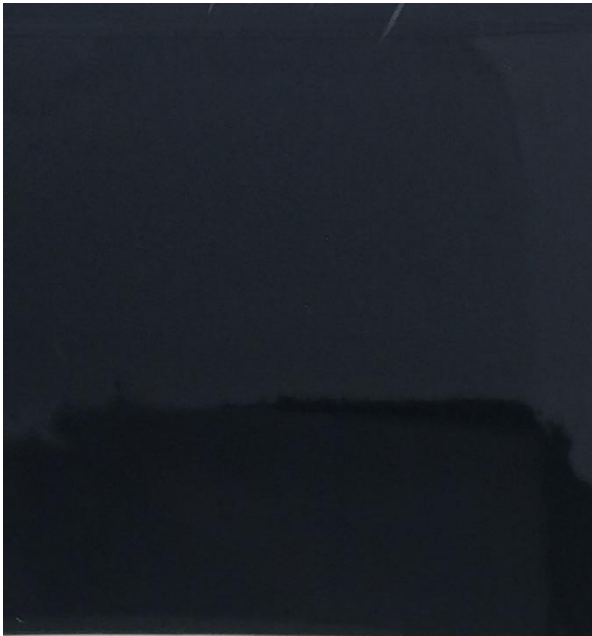
after dried
干燥后

The clear topcoat film shows good LT water whitening resistance
亚光透明面漆表现出良好的低温耐水白性能。

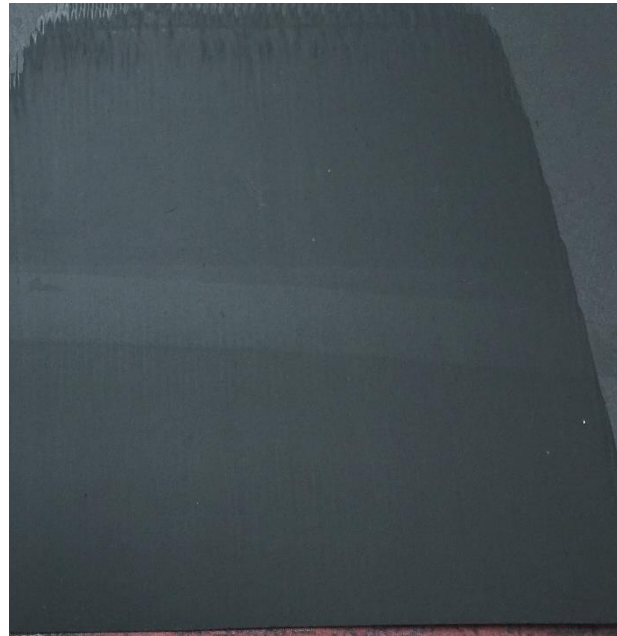
Acronal® 7646

HT WWR of Clear-topcoat 亚光透明面漆耐水白性(高温)

100um wet film, 30min@50C, 50C water immersion
100um湿膜厚度, 50C干燥30分钟, 50C浸水。



24hrs



After dry

The clear topcoat film shows good heat water whitening resistance
亚光透明面漆表现出良好的耐热水白性能。

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Matte gloss of Clear-topcoat

亚光透明面漆光泽度

100um wet film on Leneta card
100um湿膜厚度，Leneta 卡表面。



100um on Leneta card

Gloss	
20°	0.3
60°	3.0
85°	38.0

The clear topcoat film shows good matte effect
亚光透明面漆表现出良好的亚光效果。

Acronal[®] 7646

Transparency of Clear-topcoat

亚光透明面漆透明度

100um wet film on Leneta card

100um湿膜厚度，Leneta 卡表面。



红色	罩面	无罩面
L	72.61	72.60
a	15.62	15.50
b	7.41	7.19
dE	0.25	
黑色	罩面	无罩面
L	24.37	25.58
a	-0.13	-0.00
b	-0.69	-0.76
dE	1.21	

The clear topcoat film shows good transparency

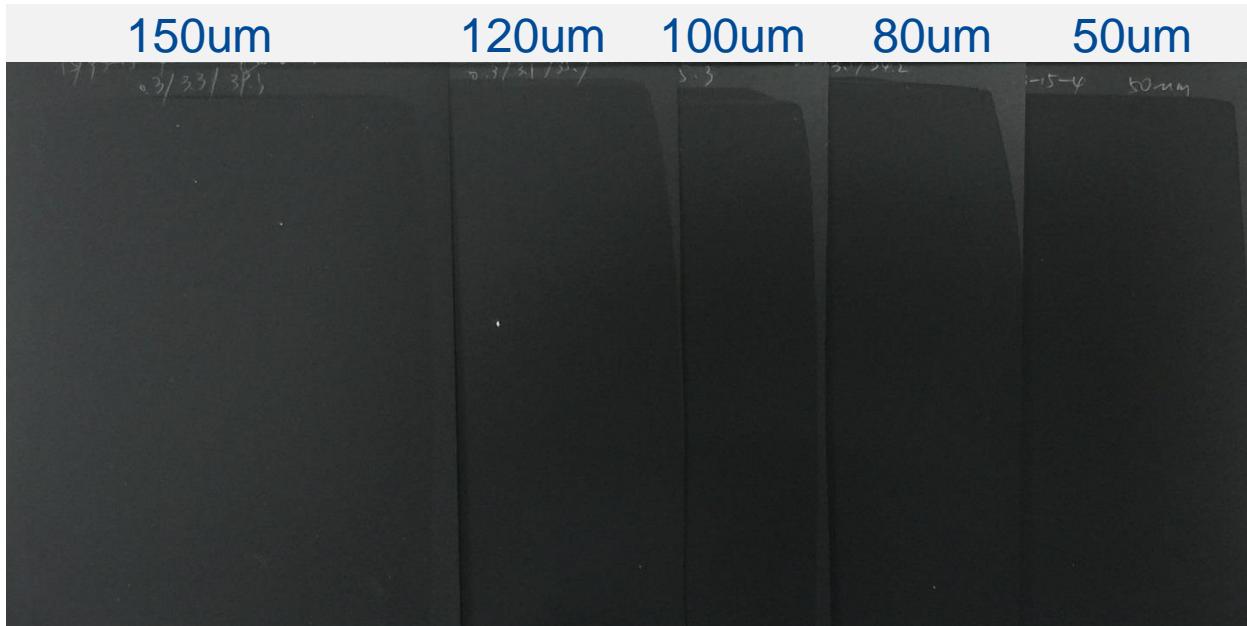
亚光透明面漆表现出良好的透明度。

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Transparency of Clear-topcoat

亚光透明面漆透明度

Various wet film thickness on Leneta card
不同漆膜厚度，Leneta 卡表面。



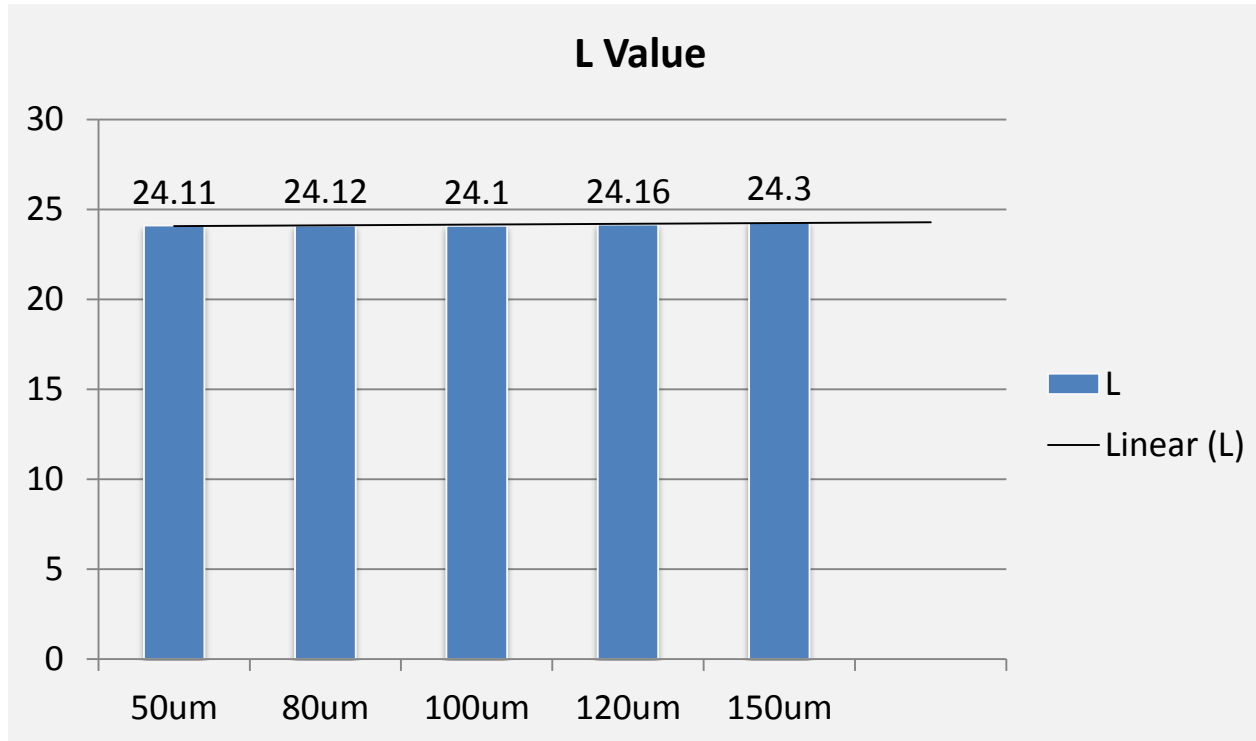
The clear topcoat film shows good transparency
亚光透明面漆表现出良好的透明度。

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Transparency of Clear-topcoat

亚光透明面漆透明度

Various wet film thickness on Leneta card
不同漆膜厚度，Leneta 卡表面。



The clear topcoat film shows good transparency
亚光透明面漆表现出良好的透明度。

Acronal[®] 7646

Touch-up test

亚光透明面漆接缝

Rolling on vinyl chart
辊涂在黑胶片表面。

Step 1



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Touch-up test

亚光透明面漆接缝

Rolling on vinyl chart
辊涂在黑胶片表面。



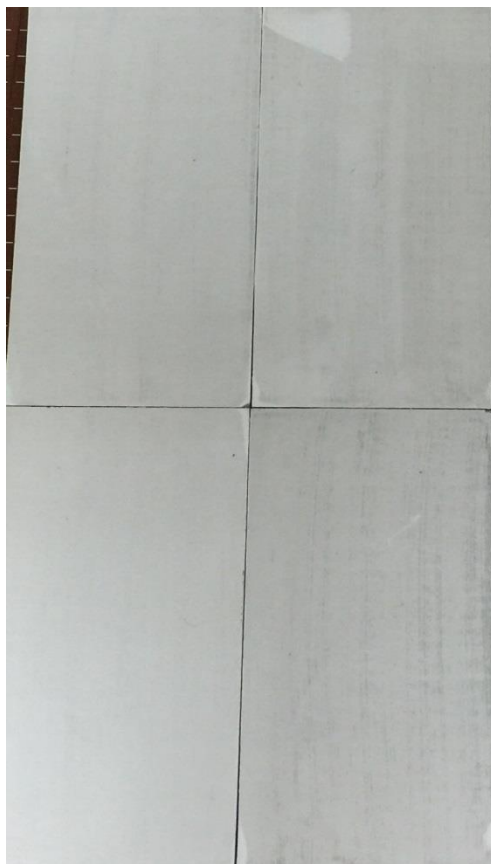
dried

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GB DPUR Test

GB耐沾污测试

亚光罩面 硅丙罩面



白漆作为背景色，150um亚光面漆罩面，
养护7天后按GB/T9780-2013 B法 测试。

GB/T 9780-2013

亚光面漆具有更好的耐沾污性

亚光罩面漆在多彩上的应用

Film appearance on multi-color paint

涂有亚光罩面
With matt topcoat

没有亚光罩面
without matt topcoat



亚光清漆罩面后，外观几乎无变化。

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QSUN and QUV Test

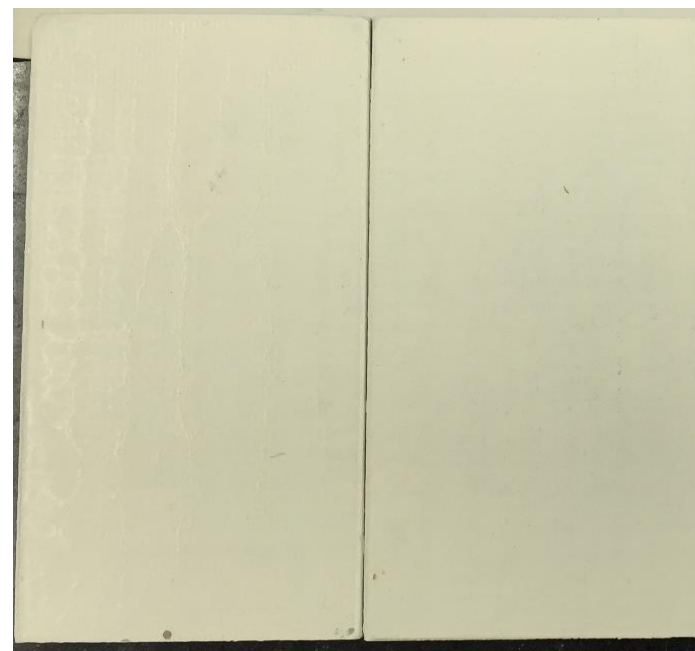
人工老化测试

初始 QSUN 600h后



Δ gloss 光泽变化	After 600h
20°	0.3
60°	2
85°	0.5

初始 QUV 600h后



	After 600h
Δ b	0.42
Δ E	0.49

Acronal® 7646

Guiding formula

建议配方

Raw Materials	Parts by weight	Description	Supplier
Water	172		
Ammonia 25%	1	pH adjuster/pH调节剂, 氨水	
DPM	4	Coalescent/二丙二醇甲醚	
Texanol	20	Coalescent/成膜助剂	Eastman
Acticide MV	1	Biocide/杀菌剂	Thor
Acronal® 7646	800	Dispersion, matt/乳液	BASF
Foamstar® ST2410	1	Defoamer/消泡剂	BASF
Total	1000		



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