

High dispersibility  
Barium Sulfate  
高分散性硫酸钡

# BARIACE® B-30 Series

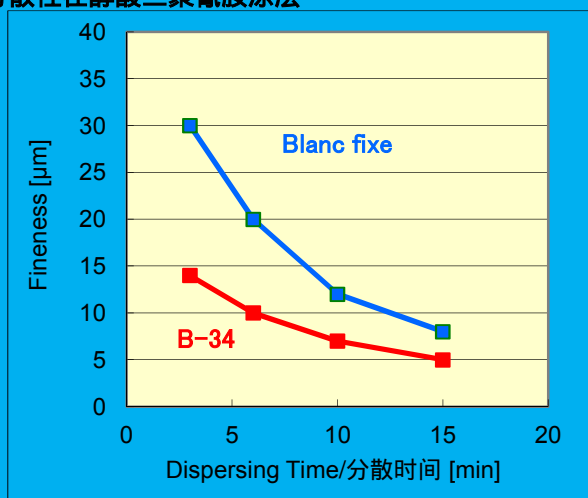
## Characteristics 特徴

- Superior dispersibility by SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> surface treatment  
优越的可分散性,采用SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>表面处理
- Haze-free gloss and highly level film by superior dispersibility  
通过卓越的可分散性获得高光泽和高平滑  
B-35、B35T have a excellent affinity with water-borne resins  
B-35、B-35T和水性树脂有极好的亲和力

Pigment pH	Non-organic treatment grade		Organic treatment grade	
	For water paint	For solvent paint	Agent:A	Agent:B
9	B-35		B-32	B-33
8	B-35T	B-30 (STD)	B-34	
6		B-31		

## Dispersibility of BARIACE BARIACEの分散性

### Dispersibility in alkyd melamine coating 分散性在醇酸三聚氰胺涂层



※ Dispersing time: 30min

#### Formulation (wt%)

BaSO <sub>4</sub>	32.4
J-524※1	37.8
J-820※2	19.2
Xylene	10.6

※1: Alkyd resin, NV:60%  
※2: Melamine resin, NV:50%  
by DIC CORPORATION

	Blanc fixe	B-34
Mean particle size 粒径(µm)	0.7	0.3
Transparency 透明度(%)	38	89
Gloss 20°	77	143
Gloss 60°	89	121

※ Dispersing time: 30min

BARIACE shows superior dispersibility and highly gloss.  
BARIACE具有优秀的分散性和高度光泽



**Sakai Chemical Industry Co., Ltd.**  
**堺化学工業株式会社**

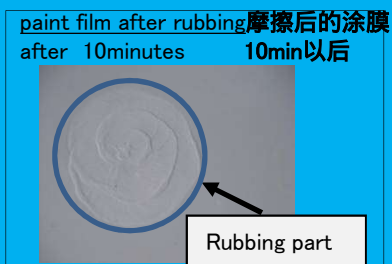
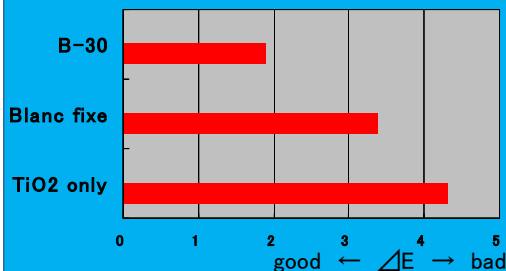
東京/Tokyo TEL: 03-5823-3722 FAX: 03-3861-1511  
大阪/Osaka TEL: 072-223-4155 FAX: 072-223-4177  
E-mail: sales-t@sakai-chem.co.jp  
http://www.sakai-chem.co.jp

## Improvement in flooding by **BARIACE** BARIACEによる色分かれ防止

### ■Rubbing test 摩擦实验

The Rubbing test is a method of rubbing the paint film after ten minutes applying by the finger, and calculated the change of color before and after rubbing by  $\Delta E$ .

涂布后10min, 以手指擦拭涂膜, 测定擦拭部分颜色变化, 计算色差。



### Formulation

Mill base (g)	
R-61N※1	20.0
MA-100※2	0.2
BaSO4	6.0/0
DISPERSING AGENT	1.3
DEIONIZED WATER	7.0
PROPYLENE GLYCOL	1.3
ANTIFOAMING AGENT	0.1
1.5mm Φ Glass beads	30.0

in 140ml Glass case  
Dispersing mill: Paint Conditioner  
Dispersing time: 30min

### Finish paint (wt%)

	CONTAIN	NON-CONTAIN
Mill base	35.9	29.9
SA-6340 ※3	56.4	56.4

Mixing finish paint: 5min

※1: Titanium dioxide 堺化学的二氧化钛  
by SAKAI CHEMICAL

※2: Carbon black 三菱化工的炭黑  
by MITSUBISHI CHEMICAL

※3: Acrylic emulsion resin  
by DIC CORPORATION  
大日本油墨塑料的丙烯酸乳液树脂

BARIACE improve flooding in paint

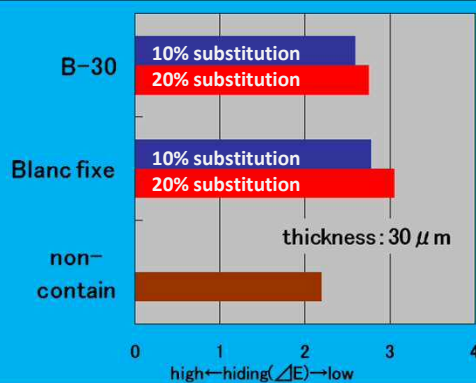
BARIACE有改善涂料颜色分离的功能。

## Substitution of TiO<sub>2</sub> by BARIACE in acrylic emulsion paint

### BARIACEによるアクリルエマルジョン塗料中の酸化チタンの置き換え

### ■Hiding

It apply on black and white paper, the difference of color on the paint film was measured, and  $\Delta E$  was calculated. Good hiding is high.



### Formulation

Mill base (g)	
R-61N※1	18/16/20
MA-100※2	0.2
BaSO4	2/4/0
DISPERSING AGENT	1.3
DEIONIZED WATER	7.0
PROPYLENE GLYCOL	1.3
ANTIFOAMING AGENT	0.1
1.5mm Φ Glass beads	30.0

in 140ml Glass case  
Dispersing mill: Paint Conditioner  
Dispersing time: 30min

### Finish paint (wt%)

	CONTAIN	NON-CONTAIN
Mill base	29.9	29.9
SA-6340 ※3	56.4	56.4

Mixing finish paint: 5min

※1: Titanium dioxide  
by SAKAI CHEMICAL

※2: Carbon black  
by MITSUBISHI CHEMICAL

※3: Acrylic emulsion resin  
by DIC CORPORATION

Highly hiding is acquired by substitution of TiO<sub>2</sub> by BARIACE.

BARIACE 替代二氧化钛可实现很高的遮蔽性

## Recommended Uses

■Automotive Surfacers Industrial Coatings Inks Plastics  
应用于汽车中涂, 各种工业用途, 各种油墨, 各种塑料塑胶制品



**Sakai Chemical Industry Co., Ltd.**  
**堺化学工業株式会社**

東京/Tokyo TEL: 03-5823-3722 FAX: 03-3861-1511  
大阪/Osaka TEL: 072-223-4155 FAX: 072-223-4177  
E-mail: sales-t@sakai-chem.co.jp  
http://www.sakai-chem.co.jp