



Technical Data Sheet

TYPE	: Thermosetting Acrylic Resin
PRODUCT	: BENCRYL 42B70
<u>PRODUCT DATA</u>	
APPEARANCE	: Crystal clear
SOLVENT	: Butyl Acetate
NON-VOLATILE MATTER (%)	: 70 $\pm$ 2%
ACIDITY [mgKOH/g]	: 5 ~ 9
VISCOSITY [mpa·s] (25 °C)	: 1800 ~ 4000
HYDROXYL CONTENT (approx,%)	: 4.2 %
HYDROXYL VALUE, approx [mgKOH/g] (100%)	: 140
DENSITY [g/cm ³], approx (25 °C)	: 1.01
FLASH POINT, approx (°C)	: 26

SPECIAL PROPERTIES AND USE

- Benzene-free, fast-drying, great film build, weathering resistance, yellowing resistance, levelling, hardness, and distinctness of image.
- Topcoat or clearcoat for car, automotive refinish, anti-corrosive, and industrial coatings.

PACKAGING

- In 200 KG net mild steel tight head drums.

1.1 Varnish formulation

Table 1.1 Varnish formulation

Ingredients	Ratio by weight
BENCRYL 42B70	80
PMA	3
XYL	5
BAC	10
10%BYK306 in BAC	0.5
BYK358N	0.3
UV absorber Ciba 5151	1
10% Dabco T-12 (Air Products) in BAC	0.2
Total	100

1.2 Varnish Performance

Table 1.2 Varnish performance

Test	Result	Standard
50 kg · cm, Impact testing 50 kg · cm	Pass	GB/T 1732-1993
Surface drying time 25 °C	40 min	GB/T 1728-1979
Adhesion	100/100	GB/T 9286-1998
Pencil hardness drying 70 °C 2h	2H	GB/T 6739-2006
Pencil hardness, room temperature, air drying	H	GB/T 6739-2006
Solid content in Spray state, NK-2# cup 13''	48.6%	-----
Pot life at 35 °C with no catalyst	≥4h	-----
Pot life at 35 °C (add 0.02% Dabco T-12 as catalyst)	≥2h	-----
Xenon wom, 1000h, on white tile	△E=2.8	GB/T 1865-2009

Reference: ① Paint/HDI90 Hardener/Thinner=100/30.5/Appropriate;

② Thinner: XYL/BAC/PMA/MIBK=3/3/2/2; ③ Using tinplate as base material if no remarks.

Ben Kimya Dış Ticaret Limited Şirketi

Address: Aksu Yaşam Sitesi, Atatürk Mahallesi, 369.Sokak No:35, A2 Blok Daire:9

City: Kocaeli, District:Çayirova, Postal Code: 41420

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2.1 White paint formulation

Table 2.1 White paint formulation

Ingredients	Ratio by weight
BENCRYL 42B70	60
EFGA5200	0.4
XYL	2
BAC	6
Titanium dioxide Dupont 902+	30
BYK358N	0.2
10% T-12 in BAC(APCI)	0.1
PMA	1
Total	100

2.2 White paint performance

Table 2.2 Coating performance

Test	Result	Standard
Gloss (60°),%	93.2	GB/T 9754-2007
Impact test 50 kg · cm on tinplate	Pass	GB/T 1732-1993
Flexibility 1mm	Good	-----
Adhesion	100/100	GB/T 9286-1998
Pencil hardness drying 70°C 2h	2H	GB/T 6739-2006

Reference: ① Paint/HDI90 Hardener/Thinner=100/23/Appropriate;

② Thinner: XYL/BAC/PMA/MIBK=3/3/2/2; ③ Using tinplate as base material if no remarks.

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3.1 Black paint formulation

Table 3.1 Black paint formulation

Ingredients	Ratio by weight
BENCRYL 42B70	78
BYK163	2
Cyclohexanone	2
XYL	6
BAC	6
Carbon black (Evonik FW200)	2
PMA	3
BYK358N	0.2
10% T-12 BAC	0.1
Total	100

3.2 Black paint performance

Table 3.2 Coating performance

Test	Result	Standard
Gloss (60°),%	92.5	GB/T 9754-2007
Impact test 50 kg · cm on tinplate	Pass	GB/T 1732-1993
Flexibility 1mm	Good	-----
Adhesion	100/100	GB/T 9286-1998
Pencil hardness drying 70°C 2h	2H	GB/T 6739-2006

Reference: ① Paint/HDI90 Hardener/Thinner=100/30.5/Appropriate;

② Thinner: XYL/BAC/PMA/MIBK=3/3/2/2; ③ Using tinplate as base material if no remarks.

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