



ISO-9001  
ISO-14001



**KUKDO**  
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# KD-242G Powder Coating Epoxy Resin

## General Description

EPOKUKDO KD-242G is a standard solid Epoxy Resin derived from liquid Epoxy Resin and Bisphenol-A. The resin is recommended for the hybrid system in combination with polyester resin or straight epoxy system to obtain good gloss, mechanical properties and chemical resistance.

## Resin Properties

Item	KD-242G	Test Method
EEW(g/eq)	650-725	KD-AS-001
Melt Viscosity <sup>*1</sup> (cps)	2,000-3,500	KD-AS-008
Softening Point <sup>*2</sup> (°C)	85-95	KD-AS-020
Color(G)	0.7 max.	KD-AS-025

\*1 I.C.I Viscosity at 150°C

\*2 Ball & Ring Method

## Starting Formulation

Components	Part by Weight
KD-242G	300
CC-314 <sup>*1</sup> (UCB)	300
Benzoin	4
MFP-VP	6
TiO <sub>2</sub> R902 (Dupont)	300
BaSO <sub>4</sub>	90

\*1 Acid Value : 65-75mgKOH/g

## Application Condition

Spraying gun	Corona charging
Spraying tension	60-80 KV
Film thickness	60-80 μm
Substrates	0.6mm cold-roll steel
Baking condition	180°C×15min

## Film Properties

Item	KD-242G	Test Method
Gloss(60°)	> 90	ASTM D523
Adhesion	100/100	ASTM D3002
Impact (Direct) (Reverse)	> 500g/50cm > 500g/50cm	ASTM D2794
Erichsen	> 7mm	ISO 1520

## FDA Status

KD-242G has broad application in surface coatings. When properly formulated and fully cured for food contact application, KD-242G will comply with the U.S. Food, Drug and Cosmetic Act as amended under food additive Regulation 21 CFR 175.300. If any of your intended uses involve food contact. We suggest that you consult with legal and technical experts and with the Food and Drug Administration. It will also be necessary to consult with KUKDO Chemical Co., Ltd. and the other raw material suppliers regarding the FDA status of the materials involved prior to commercialization or use.

## Storage

Keep dry and cool condition (under 25°C)  
Keep away from heat sources and direct sunlight

## Packaging

PE bag of 25kg net weight  
Super-sack(bag) of 500kg net weight

For literature and technical assistance, visit our website at [www.kukdo.com](http://www.kukdo.com)