

Coating film adhesion improver

NOPMAX KA-223/NOPMAX H-8001

Product Features

After mixing NOPMAX KA-223 (main agent) and NOPMAX H-8001 (hardener), curing at 130-140°C allows the product to improve adhesion between cationic electrodeposited steel sheets and chlorinated sheets.

●Evaluation Method

The raw materials were mixed in the following formulation ratios, and adhesion tests, heat yellowing resistance tests, and storage stability were evaluated.

Blended raw materials		Mixing ratio (wt%)
Paste PVC	Vinyl acetate copolymerization type	23
Blended PVC	Vinyl acetate copolymerization type	3
Plasticizer	Diisononyl phthalate	26
Calcium carbonate	Light calcium carbonate	13
	Heavy calcium carbonate	26
Main agent	NOPMAX KA-223	4.4
Hardener	NOPMAX H-8001	0.6
Solvent	Mineral spirit	5


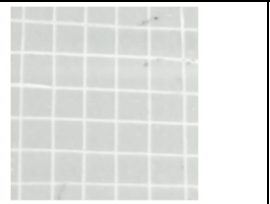
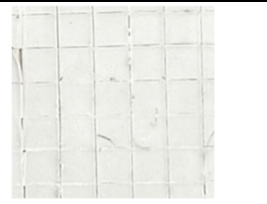

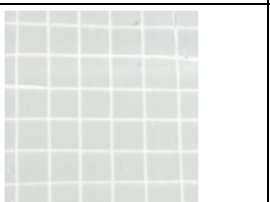
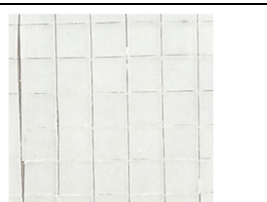
(Mixing conditions)

Mixing with a mixer* at 2000 rpm× 90 sec. → Mixing by hand with a stirring rod → Mixing again with a mixer* at 2000 rpm× 90 sec.

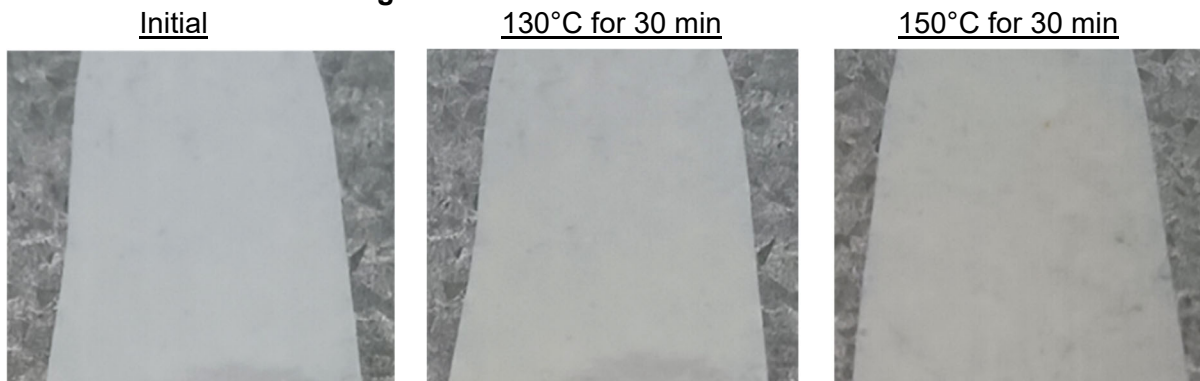
Mixer*: Vacuum mixer <THINKY Co. >

●Adhesion Test

The adhesion to cationic electrodeposition coated steel sheets (cross-cut test) was better with the added these products than without. The adhesion was maintained even after immersion in ion-exchanged water at 40°C for 10 days.

	Without these products	With these products added	After water resistance test (40°C× 10 days)
Before tape peeling			
After tape peeling			

●Heat Resistance Yellowing Test



●Storage Stability

	Initial	40°C x 5 days	40°C x 10 days
Viscosity (mPa · s) (25°C)	300,000	500,000	510,000

●Applications

Anti-corrosion paint for automobiles

●Application Methods

Mix approximately NOPMAX KA-223/NOPMAX H-8001 (wt%) = 4.4/0.6 in the paint.

●Typical Properties (These data aren't specifications.)

	NOPMAX KA-223	NOPMAX H-8001
Appearance	Pale yellow liquid	Straw colored liquid
Polymer content (%)	45	70
Viscosity (mPa · s) (25°C)	15,000	10,000
Potential NCO% (%)	2.9	–
Amine value	–	229

●Packaging

NOPMAX KA-223 : Net 16kg can, Net 180kg drum
 NOPMAX H-8001 : Net 15kg can, Net 180kg drum