ECE BOYA KİMYA SAN. ve TİC. A.Ş.

Prepared by: Nagihan ÖZTÜRK
R&D Center Executive

CONTENTS

About Ece Boya

About Ece Boya

- Established in 1982, Ece Boya is one of the leading companies in Turkey in the coating and resin manufacturing with its brand Erco.

- The company's strategy is based on rigorous **R&D studies** to develop new Technologies. Ece Boya Kimya has been **R&D CENTER** since June of 2017.

- We develop new products according to new developments in the world and by anticipating our customers' needs. We will continue to make difference by reflecting our vision to production with new plant **in Gebkim.**

- Export more than 30 countries, 45% export in our total sales

Product Groups

Unsaturated Polyester Resins

- Casting
- Hand lay-up
- RTM
- SMC/BMC
- Button
- Putty
- Mold

Polyester Resin Based Gelcoats

- Ortho phthalic
- Iso phthalic

Pigment Pastes

Resin Groups

- Alkyd Resins
- Urethane modified alkyd resins
- Isocynate based hardener resins

Vinyl Esters

- Bisphonel-A based
- Epoxy novolac based

Auxiliary Products

- Accelerators
- Monomers
- Solutions

Product Groups

Wood Coatings

- 1K Cellulosic
- Polyurethane
- Acrylic
- Polyester
- Water-based
- Wood Stains
- Auxilary products
- Thinners
- UV Curing Products

Product Groups

General Industry Coatings

- 1K Cellulosic (Rapicoat)
- Polyurethane (Harpol)
- Acrylic (Ultimar)
- Synthetic (Sentex)
- Industrial rapid(Prolux)
- Epoxy (Corodur)
- Oven drying (Termopol)

Certificates

Our Certificates

Quality Certificate ISO 9001:2015

Our Certificates

TOY SAFETY STANDARD EN 71/3 for CELLULOSIC COATINGS and WATER BASED COATINGS

erco

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Total Quality Assured.

Form LG.044Rev.0.0

TEST REPORT

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REPORT NUMBER : TURA170109713_REVISED02
APPLICANT NAME : Ece Boya Kimya San. Tic. A.Ş
ADDRESS : DOSB Karadeniz Caddesi No:9Tuzla İstanbul / TURKEY
TEL:0216 394 0920
Attention: Nagihan Ozturk (nagihan.ozturk@eceboya.com)
SAMPLE DESCRIPTION : One sample of Erco branded cellulosic wood coating liquid item
DATE IN : 1 June ,2017 (11:01:00)
DATE OUT : 6 June ,2017 /7 June ,2017 /9 June ,2017
NOTE : In this revised 01 report, sample description was corrected.
This report replaces the report no TURA170109713 dated on 6 June, 2017 and must be used instead of it.
Report no TURA170109713 dated on 6 June, 2017 is invalid.
In this revised 02 report, sample description was changed by the request of the vendor.
This report replaced the report no TURA170109713_REV01 dated on 7 June, 2017 and must be used instead of it.
Report no TURA170109713_REV01 dated on 7 June, 2017 is invalid.

TEST	SAMPLE
	1
Toxic Elements Analysis	P

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS: FURTHER STEPS

Volkan ALBAYRAK
Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

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170109713_REV02

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RESULTS
REPORT :TURA170109713_REVISED02

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9 June ,2017

Toxic Elements Analysis

BS EN 71-3:2013+A1:2014
Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP_MS

Test Method	Result	Detection Limit	Requirement
Antimony (Sb)	Not Detected	0.125 ppm	11.3 ppm
Arsenic (As)	Not Detected	0.125 ppm	0.9 ppm
Barium (Ba)	10.4 ppm	0.125 ppm	375 ppm
Cadmium (Cd)	Not Detected	0.125 ppm	0.3 ppm
Chromium (III)	Not Detected	0.125 ppm	9.4 ppm
Chromium (VI)	Not Detected	0.125 ppm	0.005 ppm
Lead (Pb)	Not Detected	0.125 ppm	3.4 ppm
Mercury (Hg)	Not Detected	0.0125 ppm	1.9 ppm
Selenium (Se)	Not Detected	0.125 ppm	9.4 ppm
Aluminium (Al)	9.7 ppm	0.125 ppm	1406 ppm
Boron (B)	3.2 ppm	0.125 ppm	300 ppm
Cobalt (Co)	Not Detected	0.125 ppm	2.6 ppm
Copper (Cu)	Not Detected	0.125 ppm	155 ppm
Manganese (Mn)	Not Detected	0.125 ppm	300 ppm
Nickel (Ni)	Not Detected	0.125 ppm	18.8 ppm
Strontium (Sr)	Not Detected	0.125 ppm	1125 ppm
Tin (Sn)	Not Detected	1.25 ppm	3750 ppm
Organic tin*	Not Detected	0.125 ppm	0.2 ppm
Zinc (Zn)	Not Detected	0.125 ppm	938 ppm

*The reported value was calculated by summation of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl tin, Trimethyl tin, Tri-n-octyl tin and Tricyclohexyl tin.

ppm (Part per million) = mg/kg
<   = Less Than
ND   = Not Detected

Estimated Total Uncertainty=(±15%)

END OF TEST REPORT

EN 71-3 SAFETY FOR TOYS

Our Certificates

TSE SYNTHETIC THINNER-TS 2436/T1

TSE CELLULOSIC VARNISHES-TS 11604

Our Certificates

LEAD IN PAINT AND OTHER SIMILAR SURFACE COATING

Intertek

Form LS.046Rev 0.0

TEST REPORT

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REPORT NUMBER :	TURA160197367_REVISED01
APPLICANT NAME :	Ece Boya Kimya San. Tic. A.Ş
ADDRESS :	DOSB Karadeniz Caddesi No:9Tuzle İstanbul / TURKEY TEL:0216 394 0920
Attention :	Bülent Çiçek,Nagihan Öztürk (bulent.cicek@eceboya.com;nagihan.ozturk@eceboya.com)
SAMPLE DESCRIPTION :	One sample of Erco branded epoxy primer liquid item
DATE IN :	18 November ,2016 (16:30)
DATE OUT :	18 November ,2016 /21 November ,2016
MATERIAL TYPE :	In this test reports, test results reported are direct instrument readings.
NOTE :	The surface coating on the submitted sample complies with the Lead Content requirements of CPSIA 2008 section 101 (a)(2)(B).
	In this revised 01 report, sample description was changed by the request of vendor. This report replaced the report no TURA160197367 dated on 18 November, 2016 and must be used instead of it. Report no TURA160197367 dated on 18 November, 2016 is invalid.

TEST	SAMPLE 1
Lead in Paint and Other Similar Surface Coating	P

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED

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160197367_REV01

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RESULTS
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21 November ,2016

Test Method	Results	Requirements
Lead in Paint and Other Similar Surface Coating		
CPSC-CH-E1003-09.1 Method followed by ICP-OES		
	385 ppm	600 ppm*

*Customer Requirement

ppm (part per million)	= mg / kg
<	= Less Than
Detection Limit	= 5 ppm
Estimated Total Uncertainity=(±4%)	

**** END OF TEST REPORT ****

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Our Certificates

TS EN ISO 9227 Corrosion tests in artificial atmospheres -- Salt spray tests
TS EN ISO 4892-3 Methods of exposure to laboratory light sources. Fluorescent UV lamps

After 200 hours salt spray test – PU systems

After 200 hours salt spray test – Acrylic systems

Our Certificates

LLOYD'S REGISTER-CERTIFICATE OF POLYESTER RESIN

LLOYD'S REGISTER-CERTIFICATE OF ECE BOYA

R&D Center

Gebkim R&D Center Plan

Coatings Laboratuvary(290 m^2)

Polyester Laboratuvary(290 m^2)

Application Laboratuvary

Gebkim R&D Center

Pilot reactor

Photograph of pilot reactor
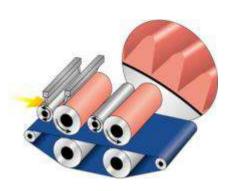
UV Curing Systems
Ece Boya UV Line

Smartcoater 2MF LASER EVO

LaserRoller twin head roller coater. This machine is suitable for perfectly smooth application of high quantities of primers as well as glossy and matt top coats.
It is a valid alternative to curtain coater application.

UV Curing Systems
Ece Boya UV Line

UV-R M2 lamb Galyum + Civa

UV-R is a UV radiation curing oven which combines all parts of the process in a single module: conveyor, UV unit and control panel. Hg lamb for surface curing, Ga lamb for deep curing.

Ecogel Ald
Modular in-line drying oven: Ecogel solutions are perfect for rapid drying processes for paints with low dry residue, and for solvent evaporation.

Tintmaster Coloring System

Dispenser

Shaker

Communication

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Thanks for attention

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