

Super Durable Powder Coatings



z-series™ PE60

SUPER DURABLE Powder Coatings

الوان
awan



PROTECH
— GROUP —

Z-series™ PE60 is Protech's line of Super Durable powder coatings. These powders are formulated to meet the requirements of AAMA 2604-98 and carry a five-year warranty when properly applied and fully cured. Z-Series™ PE60 powders are extremely resistant to all weather conditions and are an ideal solution to a multitude of exterior applications. They are available in a wide range of colors and textures and like all Protech powders, Z-Series™ PE60 powders emit no harmful VOC's and are environmentally friendly.



APPLICATIONS

- Outdoor lamp posts
- Mail boxes
- Agricultural and construction equipment
- Playground installations
- Traffic signs
- Aluminum extrusions
- Steel roof tiles



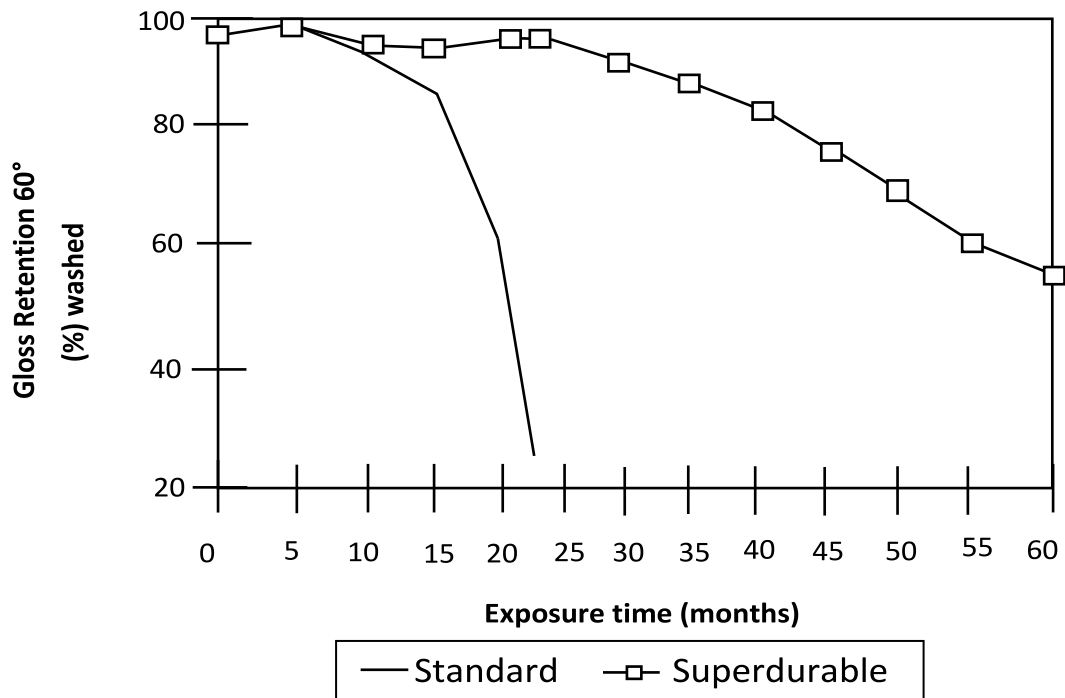
ADVANTAGES

- Meets the five year Florida exposure requirements as set forth in AAMA 2604-98
- Available in a wide range of colors and textures
- Excellent adhesion, humidity resistance and water immersion resistance
- Outstanding corrosion protection and UV durability
- Environmentally friendly
- Excellent mechanical properties including outstanding flexibility
- **QUALICOAT** Class 2 - Category 3 approved



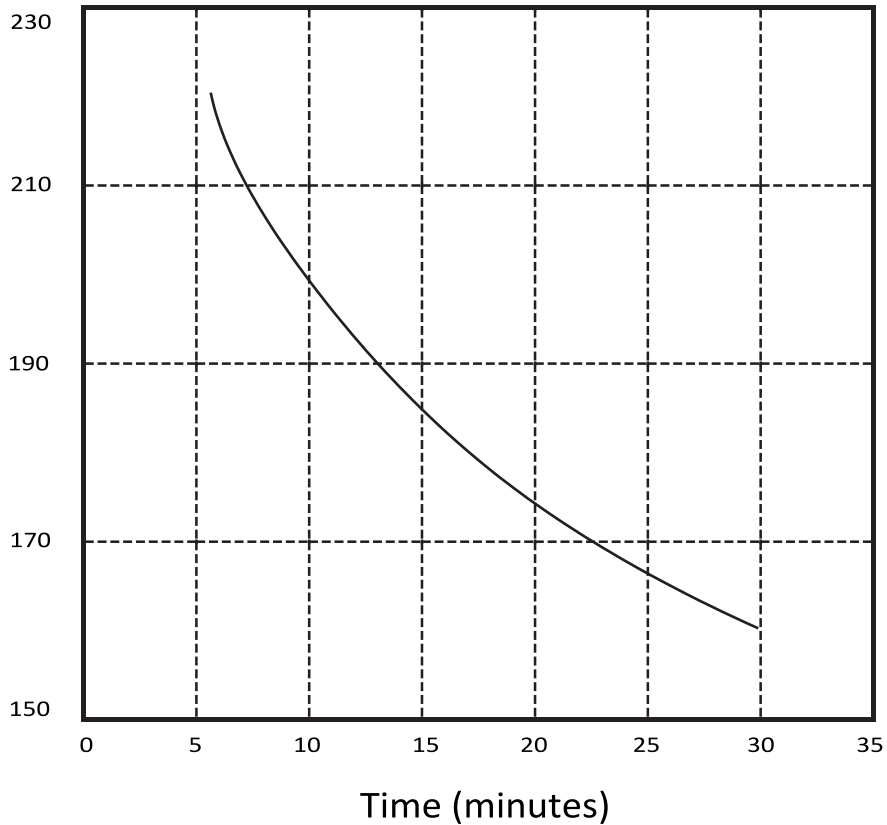
Florida Performance 45° South

Superdurable PE60 RAL 8014
Versus Standard Polyester



ALWAN PE60 Curing Schedule

Temperature (Degrees Celsius)



PROTECH
GROUP

الوان
alwan



z-series™ PE60
SUPER DURABLE Powder Coatings

Z-SERIES™ PE60

SUPER-DURABLE EXTERIOR POWDER COATINGS

APPLICATION CONDITIONS

Protech's Z-series™ PE60 super durable exterior powder coatings are ideally suited for outdoor applications where excellent UV resistance and weatherability are required. In addition, these coatings have excellent chemical and mechanical properties. They are intended for use on metallic substrates. Our Z-series™ powders comply with the specifications of AAMA 2604-02.

Pretreatment	For steel – iron and zinc phosphating For aluminum - chromatizing
Application conditions	Electrostatic powder spray, 40 to 120 kv (Kilovolt)
Film thickness	For normal usage, 1.5 mils to 3.0 mils (depending on color and finish)
Specific gravity	1.2 – 1.9 (depending on color)
Coverage	160 – 100 (depending on color) sq.ft. / lb / 1mil at 100% efficiency
Baking schedule	METAL TEMPERATURE 8 – 10 minutes at 320°F (160°C) (low bake) 5 – 7 minutes at 400°F (204°C) (regular)
Typical applications	Aluminum extrusions Automotive topcoat Architectural products Air conditioners Fencing Mail boxes Patio furniture Lampposts



STATEMENT OF WARRANTY FOR Z-SERIES PE60™ 25 YEAR WARRANTY

SUPER DURABLE POLYESTER POWDER COATINGS FOR ARCHITECTURAL APPLICATIONS

The Protech / Oxyplast warrants that the Z-series™ PE60 series of powder coatings produced by Protech/Oxyplast or by any of our licensees, will meet or exceed the performance requirements of GSB, Qualicoat and AAMA 2604 and will maintain film integrity for a minimum of twenty-five years.

Z-series™ PE60 super durable powder coatings are engineered to meet or exceed the performance requirements set forth in the "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels" - American Architectural Manufacturers Association (AAMA 2604).

This specification calls for Florida exposure south of latitude 27° North at a 45° angle facing south for a minimum of five years with a minimum of 30% gloss retention (ASTM 523) and a maximum ΔE color change of 5.0 units ASTM D2244.

Corrosion resistance and adhesion are a direct function of pretreatment and metal preparation conditions. Therefore, all surface preparation, pretreatment and application must be performed and carried out by approved applicators in strict conformance with Protech's instructions and product data sheets. The recommended procedures set forth in AAMA 2604, and all other written specifications including maintenance and cleaning procedure, must be met. A multi-stage cleaning and pretreatment system is required to remove organic and inorganic surface soils, remove residual oxides, and apply a chemical conversion coating to which organic coatings will firmly adhere.

A clear top coat could be recommended on certain vivid colors for added durability, refer to the product datasheet for specific application.

Our technical advice, whether verbal or in writing, is given in good faith. It does not release the purchaser or the applicator from testing the products as to their suitability for the particular application.

This warranty is subject to terms, conditions and limitations. Protech warrants the customer but not to any successor or assignee of the customer.

GLOBAL MANUFACTURING NETWORK

THE AMERICAS

CANADA

Head Office
Protech Chemicals Ltd.
7600 Henri-Bourassa West
St. Laurent, Quebec H4S 1W3
Tel: 514-745-0200
Fax: 514-745-5774
e-mail: sales@protechpowder.com

Protech Chemicals Ltd.
150 Klondike Dr.
North York, Ontario M9L 1X3
Tel: 416-667-9697
Fax: 416-667-0460
e-mail: slava@protechpowder.com

UNITED STATES

Protech Powder Coatings Inc.
21 Audrey Place
Fairfield, New Jersey 07004
Tel: 973-257-0505
Fax: 973-257-0114
e-mail: llauraeano@protechpowder.com

Protech Powder Coatings Inc.
939 Monocacy Rd
York, Pennsylvania 17404
Tel: 717-767-6996
Fax: 717-767-6993
e-mail: hnieves@protechpowder.com

BRAZIL

Protech do Brasil Ltda.
Rua Engenheiro Albert Leimar
415, Parque São Geraldo
Guarulhos - S.P., Brazil
Tel: +55 11 20884090
Fax: +55 11 24050305
e-mail: mocohen@protechpowder.com.br

CHILE

Pinturas Tricolor S.A.
Avda Claudio Arrau 9440
Pudahuel
Santiago
Chile
Tel: +56 02 2908761
Fax: +56 02 6011912
e-mail: servicioalcliente@tricolor.cl

COLOMBIA

Industria de Electrodomésticos S.A.
Indusel S.A.
Autopista (AC57R) Sur 67-59
Bogotá D.C., Colombia
Tel: +57 1 724 5151
Fax: +57 1 724 5150
e-mail: oxy@indusel.com.co

PERU

Industrias Vencedor S.A.
Av. Jorge Chávez 154 - 803
Miraflores, Lima 18.
Perú
Tel: +51 1202 0000
Fax: +51 444 0909
e-mail: postmaster@vencedor.com.pe

EUROPE / MIDDLE EAST / AFRICA

BELGIUM

Oxyplast Belgium NV
Hulsdonk 35
B-9042 Gent-Mendonk
Belgium
Tel: +32 9 326 79 20
Fax: +32 9 337 01 59
e-mail: info@oxyplast.be

THE CZECH REPUBLIC

Protech-Oxyplast CZ (formerly Ekopowder)
Janska 18
746 01 Opava
Tel: +420 553 615 901
e-mail: info@protechpowder.cz

EGYPT

UNITED ARABIAN COMPANY
Cairo, Egypt
T: +20.2.23352119
F: +20.2.23352832
e-mail: almasapowders@yahoo.com

SAUDI ARABIA

Gulf Powder Polyester & Epoxy Coating Factory
2nd Industrial Areal
P.O. Box 6416
SA - 11442 Riyadh
Saudi Arabia
Tel: +966 126 519 77
Fax: +966 126 520 32
e-mail: sales@alwanpowdercoating.com

ASIA / PACIFIC

CHINA

Foshan Lea Hin Coatings Co. Ltd.
Long Jin Road, Nanzhuang Town, Chancheng
Foshan City, Guangdong Province
China 528061
Tel: +86 757 85396055
Fax: +86 757 85396044
e-mail: honsoo@yahoo.com

INDONESIA

PT Oxyplast Indonesia
Jl. Raya Beji, Bangil Km. 4
Desa Cangkringmalang, Kec. Beji
ID - 67154 Pasuruan, Jawa Timur
Indonesia
Tel: +62 343 656 886
Fax: +62 343 656 882
e-mail: noeltc@oxyplast.co.id
sales@oxyplast.co.id

KOREA

Chokwang Paint Limited
379-1, Samrak-Dong
Sasang-Ku
KR - 617-070 Pusan
Korea
Tel: +82 51 304 7701
Fax: +82 51 304 7744
e-mail: RGY@ckpc.co.kr

MALAYSIA

Oxyhin Sdn Bhd
Lot 1, Jalan 13/3
46200 Petaling Jaya, Selangor
Malaysia
Tel: +60 379 565 599
Fax: +60 379 565 232
e-mail: oxyhin@streamyx.com

PAKISTAN

Berger Paints (Pakistan) Limited
28-KM Multan Road Lahore
Pakistan
Tel: +92 423 7543445-9
Fax: +92 423 7543450
e-mail: technical@berger.com.pk

PHILIPPINES

Diversys Spectrum Products, Inc.
111 North Main Avenue,
Laguna Technopark
Binar, Laguna 4024
Philippines
Tel: (+63-2) 786-7201
Fax: (+63-2) 786-7218
e-mail: charlie.sy@diversysph.com
www.diversysph.com

SINGAPORE

Lea Hin Co. (Powder Manufacturers) Pte Ltd
293 Alexandra Road
SG - 159940 Singapore
Republic of Singapore
Tel: +65 6 47 56 198
Fax: +65 6 47 36 185
e-mail: ehk@leahinpowder.com
sales@leahinpowder.com

THAILAND

Siam Oxyplast Co. Ltd.
7 Soi Prachauthid 33 Yeak 9, Bangmod,
Thungkru, Bangkok 10140
Thailand
Tel: +66 02 427 9995-7
Fax: +66 02 427 9998
e-mail: info@oxyplast.co.th

VIETNAM

Dai Phu Co., Ltd.
D2/1 Road 1B, Vinh Loc Industrial Park
Binh Tan District, Hochiminh City
Vietnam
Tel: +848. 37653387
Fax: +848. 37653386
e-mail: daiphuoxypast@vnn.vn

GLOBAL DISTRIBUTION NETWORK

THE AMERICAS

ARGENTINA

Arnum As Electrostatica
Dr. E. Iberlucea 1141
Haedo(1706)
Pcia. De Bs.
Argentina
Tel: (5411) 4659-4724
Fax: (5411) 4443-5810
e-mail: info@arnum.com.ar

MEXICO

Protech Mexicana S.A. de C.V.
Laguna No. 24 Col. Ampl. Los Alpes
Delegacion Alvaro Obregon
Mexico D.F. C.P. 01710
Tel: 514-745-0200
Fax: 514-745-5774
e-mail: jargueta@protechpowder.com

VENEZUELA

Industrias Granitop
Final Calle El Oficio,
Galpón S/N, Zona Industrial Los Naranjos,
Guarenas, Edo.
Miranda.
Tel: 362.74.13/ 38.39
www.granitop.com.ve

EUROPE / MIDDLE EAST / AFRICA

BULGARIA

Oxyplast Bulgaria
J.K. Ovcha Kupel 1, BL510, V
1632 Sofia
Bulgaria
Tel: 0035 929 200 989
Fax: 0035 929 200 989

THE CZECH REPUBLIC

Servind sro
Stresovicka 49
CZ-16200 Praga 6
Czech Republic
Tel: +420 729 862 205
Fax: +420 729 862 209
e-mail: jloskot@servind.com

FINLAND

Alystek OY
Konetie 8
04300 Tuusula
Finland
Tel: 0035 844 202 50 46
Tel: 0035 820 793 161
e-mail: info@alystek.fi

GREAT BRITAIN

Oxyplast UK
Prospect Industr. Estate Unit 3
Plat Lane, Hindley, Wigan
WN2 3 PA Lancashire
Great Britain
Tel: 0044 194 225 50 10
Fax: 0044 194 225 36 31
e-mail: graeme.higgins@oxyplastuk.com

HUNGARY

Colour Investm. Hungaria KFT.
Kölcsey UT 31/A
KEK H-4515
Hungary
Tel: 0036 302 122 500
Fax: 0036 120 01 47
e-mail: colourinvestment@t-online.hu

IRELAND

Goodbody Ltd.
Unit F, Solus Tower Ind. Est.
Corke Abbey
Bray, County Wicklow
Ireland
Tel: 0035 312 827 353
Fax: 0035 312 814 477
e-mail: sales@goodbodyltd.com

ISRAEL

Barak Bar-On Mark. & Tech.
11 Zait St. P.O.Box 4708
48 571 Rosh-Ha'ayin
Israel
Tel: 0097 239 027 229
Fax: 0097 239 384 269

POLAND

Promal Coatings SPZ. o.o
Ul. Elektryczna 2
05-500 Piaseczno
Poland
Tel: 0048 227 165 235
Fax: 0048 227 029 313
e-mail: pawel.mlynik@promal.com.pl

RUSSIA

Format-M
Leningradskij Prospekt 75 Str 1
RU-125057 Moscow
Russia
e-mail: format_m@bk.ru



PROTECH
GROUP

الوان
alwan