series 38

super durable powder coatings

TIGER Drylac® Powder Coatings

TIGER Drylac® Series 38 – Exterior or Interior

A highly weather- and UV-resistant powder coating based on super-durable TGIC Polyester

Features

Superior Gloss and Color Retention
Excellent Weather Resistance
Good Mechanical Properties
Superior Chalking Resistance
Very Smooth Flow
Excellent Edge Coverage
Good Storage Stability

Typical Applications

Architectural Applications	Defense Industry
Construction Industry	Automotive Equipment
Lighting Fixtures	Marine Applications
Park Furniture	Agricultural Equipment
Playground Equipment	Sports Equipment
Garage Doors	Recreational Vehicles
Stadium Seating	Lawn and Garden Equipment
Fencing	Railing

Standard Series 38

Smooth Glossy (85±5*) RAL Colors (see RAL color and product number listing)
Smooth Matte (20±5*)
Smooth Matte Satin (30±5*)

Gloss level according to Gardner 60° ASTM D523

Custom Colors

Any other color or finish is available as a custom color with a 220-lb. minimum order. Due to pigmentation a small percentage of colors in the yellow, orange, red and purple range offer only limited UV stability. UV stability of custom color products in that color range must be verified by our production laboratories on a case by case basis.

Standard Packaging

44 lbs/20 kg and 55 lbs/25 kg carton or 5 lbs/2.5 kg Minipack

Specific Gravity

1.2 – 1.6 g/cm^3 depending on pigmentation

Theoretical Coverage

Depending on pigmentation and processing conditions.
1 lb coats approx. 50 sq. ft. at 3 mils avg.
1 kg coats approx. 10 sq. m. at 75 microns avg.

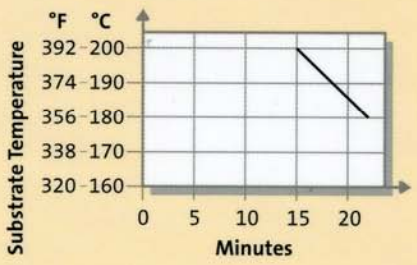
Processing

Electrostatic and Tribo/Airstatic Spraying, manual or automatic.

Dry Storage Stability

6 months at no more than 77° F/25° C

Cure Parameter



Note

A reasonable degree of loss of gloss and color variation due to long-term UV exposure can be expected.

notes

super durable

TIGER Drylac™ Smooth Glossy RAL Colors available in Series 38:

RAL 1000 • 38/15000
RAL 1001 • 38/15001
RAL 1002 • 38/20002
RAL 1004 • 38/20004
RAL 1005 • 38/20005
RAL 1006 • 38/20006
RAL 1011 • 38/15011
RAL 1012 • 38/20012
RAL 1013 • 38/10013
RAL 1014 • 38/15014
RAL 1015 • 38/15015
RAL 1016 • 38/20016
RAL 1017 • 38/20017
RAL 1018 • 38/20018
RAL 1019 • 38/15019
RAL 1020 • 38/20020
RAL 1021 • 38/20021
RAL 1023 • 38/20023
RAL 1024 • 38/20024
RAL 1027 • 38/20027
RAL 1032 • 38/20032
RAL 2001 • 38/23170
RAL 2002 • 38/25002
RAL 2010 • 38/25001
RAL 3000 • 38/30000
RAL 3001 • 38/30001
RAL 3002 • 38/30002
RAL 3003 • 38/30003
RAL 3004 • 38/30004
RAL 3005 • 38/30005
RAL 3007 • 38/30007
RAL 3009 • 38/30009
RAL 3011 • 38/30011
RAL 3012 • 38/30012
RAL 3013 • 38/30013
RAL 3016 • 38/30016
RAL 3020 • 38/30021
RAL 3031 • 38/30031
RAL 4002 • 38/30008
RAL 4004 • 38/30024
RAL 4007 • 38/30025

RAL 5000 • 38/40000
RAL 5001 • 38/40001
RAL 5002 • 38/40002
RAL 5003 • 38/40003
RAL 5004 • 38/40004
RAL 5005 • 38/40010
RAL 5007 • 38/40007
RAL 5008 • 38/40008
RAL 5009 • 38/40009
RAL 5010 • 38/40016
RAL 5011 • 38/40011
RAL 5012 • 38/40012
RAL 5013 • 38/40013
RAL 5014 • 38/40014
RAL 5015 • 38/40015
RAL 5017 • 38/40017
RAL 5018 • 38/40020
RAL 5019 • 38/40019
RAL 5020 • 38/40018
RAL 5021 • 38/40021
RAL 5022 • 38/40022
RAL 5023 • 38/40023
RAL 5024 • 38/40024
RAL 6000 • 38/50000
RAL 6001 • 38/50005
RAL 6002 • 38/50023
RAL 6003 • 38/50003
RAL 6004 • 38/50004
RAL 6005 • 38/50002
RAL 6006 • 38/50006
RAL 6007 • 38/50007
RAL 6008 • 38/50008
RAL 6009 • 38/50009
RAL 6010 • 38/50031
RAL 6011 • 38/50011
RAL 6012 • 38/50012
RAL 6013 • 38/50013
RAL 6014 • 38/50014
RAL 6015 • 38/50015
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RAL 6017 • 38/50017

RAL 6018 • 38/50018
RAL 6019 • 38/50019
RAL 6020 • 38/50020
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RAL 6026 • 38/50026
RAL 6027 • 38/50027
RAL 6028 • 38/50028
RAL 6029 • 38/50029
RAL 6032 • 38/50032
RAL 6033 • 38/50033
RAL 6034 • 38/50034
RAL 7000 • 38/70000
RAL 7001 • 38/70003
RAL 7002 • 38/70007
RAL 7003 • 38/70017
RAL 7004 • 38/70004
RAL 7005 • 38/70005
RAL 7006 • 38/70006
RAL 7008 • 38/70008
RAL 7009 • 38/70009
RAL 7010 • 38/70014
RAL 7011 • 38/70011
RAL 7012 • 38/70012
RAL 7013 • 38/70013
RAL 7015 • 38/70015
RAL 7016 • 38/70016
RAL 7021 • 38/70021
RAL 7022 • 38/70022
RAL 7023 • 38/70023
RAL 7024 • 38/70024
RAL 7026 • 38/70026
RAL 7030 • 38/70027
RAL 7031 • 38/70031
RAL 7032 • 38/70001
RAL 7033 • 38/70033
RAL 7034 • 38/70034
RAL 7035 • 38/70035
RAL 7036 • 38/70036

RAL 7037 • 38/70037
RAL 7038 • 38/70038
RAL 7039 • 38/70039
RAL 7040 • 38/70046
RAL 7042 • 38/70042
RAL 7043 • 38/70043
RAL 7044 • 38/70044
RAL 7045 • 38/70045
RAL 7046 • 38/70002
RAL 7047 • 38/70047
RAL 8000 • 38/60000
RAL 8001 • 38/60005
RAL 8002 • 38/60002
RAL 8003 • 38/60003
RAL 8004 • 38/60004
RAL 8007 • 38/60007
RAL 8008 • 38/60008
RAL 8011 • 38/60011
RAL 8012 • 38/60012
RAL 8014 • 38/60010
RAL 8015 • 38/60015
RAL 8016 • 38/60016
RAL 8017 • 38/60017
RAL 8019 • 38/60019
RAL 8022 • 38/60022
RAL 8023 • 38/60023
RAL 8024 • 38/60024
RAL 8025 • 38/60025
RAL 8028 • 38/60028
RAL 9001 • 38/10001
RAL 9002 • 38/10002
RAL 9003 • 38/10003
RAL 9004 • 38/80004
RAL 9005 • 38/80010
RAL 9010 • 38/10004
RAL 9011 • 38/80001
RAL 9016 • 38/10010
RAL 9017 • 38/80017
RAL 9018 • 38/10018

TIGER Drylac® 38/10130
Seashell White 30±5*

TIGER Drylac® 38/10070
Bone White 30±5*

TIGER Drylac® 38/70048
Sky Grey 30±5*

TIGER Drylac® 38/15003
Almond 30±5*

TIGER Drylac® 38/15012
Sandstone 30±5*

TIGER Drylac® 38/70070
Taupe 30±5*

TIGER Drylac® 38/15002
Sierra Tan 30±5*

TIGER Drylac® 38/70025
Ash Grey 30±5*

TIGER Drylac® 38/70019
Slate Grey 30±5*

TIGER Drylac® 38/60014
Medium Bronze 30±5*

TIGER Drylac® 38/60018
Koko Brown 30±5*

TIGER Drylac® 38/30033
Boysenberry 20±5*

TIGER Drylac® 38/30041
Redwood 30±5*

TIGER Drylac® 38/30028
Brick Red 20±5*

TIGER Drylac® 38/50035
Seafoam Green Metallic

TIGER Drylac® 38/60006
Aged Copper 20±5*

TIGER Drylac® 38/50080
Ivy Green 30±5*

TIGER Drylac® 38/50037
Classic Green 30±5*

TIGER Drylac® 38/50110
Hartford Green 30±5*

TIGER Drylac® 38/60080
Statuary Bronze 30±5*

TIGER Drylac® 38/60060
Medium Bronze Metallic*

TIGER Drylac® 38/40025
Interstate Blue 20±5*

TIGER Drylac® 38/40051
Military Blue 30±5*

TIGER Drylac® 38/70049
Silver Grey 30±5*

TIGER Drylac® 38/80020
Jet Black 30±5*

*Gloss level according to Gardner 60° ASTM D523. Paper and ink limitations of color samples as well as influence from heat and light account for differences from actual powder coatings.

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Bengal

TIGER Drylac® 49/11111
Bengal White 95±5*

TIGER Drylac® 49/77777
Bengal Light Grey 95±5*

TIGER Drylac® 49/10388
Bengal Cream 95±5*

TIGER Drylac® 49/70158
Bengal Dark Grey 95±5*

TIGER Drylac® 49/66666
Bengal Yellow 95±5*

TIGER Drylac® 49/88888
Bengal Black 95±5*

TIGER Drylac® 49/22222
Bengal Orange 95±5*

TIGER Drylac® 49/99999
Bengal Silver

TIGER Drylac® 49/33333
Bengal Red 90±5*

TIGER Drylac® 49/01234
Bengal Clear Glossy

TIGER Drylac® 49/44444
Bengal Blue 95±5*

Steel Rack

TIGER Drylac® 49/10316
Steel Rack White 90±5*

TIGER Drylac® 49/20047
Steel Rack Yellow ** 90±5*
Limited UV Resistance

TIGER Drylac® 49/25001
Steel Rack Orange ** 90±5*
Limited UV Resistance

TIGER Drylac® 49/30052
Steel Rack Red ** 90±5*
Limited UV Resistance

TIGER Drylac® 49/40057
Steel Rack Blue 90±5*

TIGER Drylac® 49/50058
Steel Rack Green 90±5*

TIGER Drylac® 38/00001
Clear 90+*

TIGER Drylac® 38/10007
Bianco 302 85±5*

TIGER Drylac® 38/70032
Grey Classic 303 85±5*

TIGER Drylac® 38/70056
Grey Classic 310 85±5*

TIGER Drylac® 38/15009
Crème 305 85±5*

TIGER Drylac® 38/15007
Crème 303 85±5*

TIGER Drylac® 38/15005
Crème 301 85±5*

TIGER Drylac® 38/60021
Marrone 305 85±5*

TIGER Drylac® 38/60026
Marrone 306 85±5*

TIGER Drylac® 38/60039
Marrone 308 85±5*

TIGER Drylac® 38/50039
Highland 305 85±5*

TIGER Drylac® 38/50038
Highland 304 85±5*

TIGER Drylac® 38/50040
Highland 306 85±5*

TIGER Drylac® 38/50041
Highland 307 85±5*

TIGER Drylac® 38/60031
Marrone 302 85±5*

TIGER Drylac® 38/30035
Rosso 306 85±5*

TIGER Drylac® 38/30034
Rosso 305 85±5*

TIGER Drylac® 38/25006
Sunset 302 85±5*

TIGER Drylac® 38/20011
Deore 307 85±5*

TIGER Drylac® 38/20009
Deore 305 85±5*

TIGER Drylac® 38/40031
Azzurro 305 85±5*

TIGER Drylac® 38/40033
Azzurro 307 85±5*

TIGER Drylac® 38/70054
Grey Classic 308 85±5*

TIGER Drylac® 38/70061
Grey Classic 314 85±5*

TIGER Drylac® 38/80002
Carbon 301 85±5*

*Gloss level according to Gardner 60° ASTM D523. Paper and ink limitations of color samples as well as influence from heat and light account for differences from actual powder coatings.

TIGER Drylac® 38/90003
Argento 301 Metallic

TIGER Drylac® 38/90010
Marine Silver

TIGER Drylac® 38/90007
Argento 305 Metallic

TIGER Drylac® 38/90011
Argento 308 Metallic

TIGER Drylac® 38/90015
Pearl Dark Grey

TIGER Drylac® 38/90016
Argento 312 Metallic

TIGER Drylac® 38/90018
Argento 314 Metallic

TIGER Drylac® 38/60090
Dark Anodized Bronze 20±5*

TIGER Drylac® 38/30048
Pearl Ruby Red

TIGER Drylac® 38/30043
Rosso 302 Metallic

TIGER Drylac® 38/60064
Pearl Copper

TIGER Drylac® 38/30042
Rosso 301 Metallic

TIGER Drylac® 38/50131
Pearl Green

TIGER Drylac® 38/50135
Pearl Opal Green

TIGER Drylac® 38/50043
Highland 301 Metallic

TIGER Drylac® 38/40035
Azzurro 301 Metallic

TIGER Drylac® 38/40127
Pearl Night Blue

TIGER Drylac® 38/20014
Deore 302 Metallic

TIGER Drylac® 38/15018
Champagne 302 Metallic

TIGER Drylac® 38/15017
Champagne 301 Metallic

TIGER SHIELD System

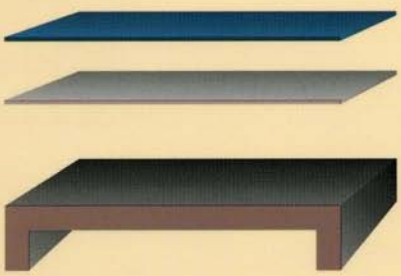
for superior corrosion protection (recommended for marine environments and coastal regions)

Product Description
The TIGER Drylac SHIELD System is a two-coat process combining optimum corrosion protection with highest weatherability.

The basis for the excellent corrosion resistance is either TIGER Drylac 69/90350, a Dryzinc Primer or TIGER Drylac 69/70000, a Dryprotective Primer. This two coat system warrants an optimum non-porous film as well as excellent UV protection through the use of high quality polyester powder coatings.

Processing
Electrostatic and Tribo/Airstatic spraying, manual or automatic. TIGER Drylac 69/90350 Dryzinc Primer and TIGER Drylac 69/70000 Dryprotector Primer must be applied over a clean dry substrate, free of any contaminates and oxidation. Note: Time elapsed between application of TIGER Drylac 69/90350 Dryzinc Primer and topcoating with TIGER Drylac Series 38 Polyester must not exceed 12 hours max.

Steel/Iron



Topcoat: TIGER Drylac Series 38

TIGER Drylac 69/90350 Dryzinc Primer or TIGER Drylac 69/70000

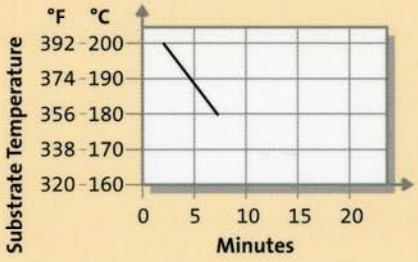
Properly sandblasted **Iron/Steel** including **Structural Steel**

Aluminum

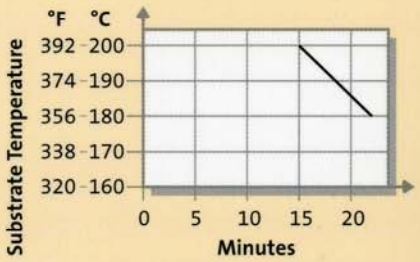
Under normal conditions a single coat of Series 38 powder coating is sufficient. In highly corrosive environments, as is found in coastal regions or industrial atmospheres, a 2-coat system of TIGER Drylac Dryprotector 69/70000 plus a topcoat of Series 38 can be beneficial. Both products are engineered to complement each other and offer an excellent corrosion barrier. For objects exposed to extreme conditions, especially where there is a possibility of filiform corrosion, Chromate Conversion coatings or Chrome Phosphatizing has been proven to be an excellent pretreatment choice.

Cure Parameters
TIGER Drylac Dryzinc Primer and Dryprotector Primer
In general, we recommend only partial rather than full cure for the first coat.

First Coat
69/90350 or 69/70000



Second Coat
Series 38



Specific Gravity
TIGER Drylac Series 38: 1.2–1.6 g/cm3 depending on pigmentation.
TIGER Drylac 69/90350 Dryzinc Primer: 3.0 ± 0/.1g/cm3
TIGER Drylac 69/70000 Dryprotector Primer: 1.6 ± 0/.1g/cm3

Theoretic Coverage
Product (primer plus topcoat) is normally applied between 4.0 and 5.0 mils/90-125 microns.

Test Results on Aluminum:

Corrosion Resistance Humidity Resistance 3000 hrs.—ASTM D 2247	Formation of blisters not to exceed "few" blisters size #8 as shown in Figure 4.0 ASTM D 714	No blistering
Salt Spray Resistance 3000 hours – ASTM B 117	Minimum rating of 7 on scribe or cut edges, and a minimum blister rating of 8 within the test specimen field, in accordance with the Table 1 and Table 2 Reference modification of ASTM D 1654	No blistering, no undercutting

Test Results on Steel:

Salt Spray Resistance* ASTM 117-90	Undercutting	Blisters	Adhesion
1000 hour	0	m0 / g0	Gt0
2000 hour	0 – 1	m0 / g0	Gt0
3000 hour	2 – 3	m2 / g1	Gt0

*Tested on a 2-coat system of Series 38 and TIGER Drylac® 69/90350 Dryzinc Primer (substrate: steel—sandblasted)

Mechanical Properties:

Test	Results for basecoat alone 69/90350	Two-Coat System TIGER Drylac 69/90350 + TIGER Drylac Series 38
Film Thickness	2.4-2.6 mils/60±5µm	2.4-2.6 mils/60±5µm (Primer) 2.4-2.6 mils/60±5µm (Topcoat) Minimum requirement for a non-porous film!
Cross Hatch Adhesion ISO 2409 / ASTM D 3359	pass 100%	pass 100%
Mandrel Bending Test ISO 1519 / ASTM D 522	5/32 in. /4 mm (3/16 in./5 mm)	3/8 in./10 mm
Impact test 1/10 in. Distortion ISO 6272 / STM D 2794-90	up to 40 in./lbs. (up to 20 in/lbs.)	up to 40 in./lbs. (up to 20 in/lbs.)

TIGER Drylac®

offices and warehouses

West Coast
1261 E. Belmont Street
Ontario, CA 91761
Phone: (909) 930-9100
Fax: (909) 930-9111
customerservicewest@tigerdrylac.com

Northwest
18808 142nd Avenue N.E., Suite 2B
Woodinville, WA 98072
Phone: (425) 481-3160
Fax: (425) 481-1136
customerservicenw@tigerdrylac.com

Midwest
3855 Swenson Avenue
St. Charles, IL 60174
Phone: (630) 513-9999
Fax: (630) 513-9998
customerservicemw@tigerdrylac.com

East Coast
1100 Commons Blvd.
Reading, PA 19605
Phone: (610) 926-8148
Fax: (610) 926-8149
customerserviceeast@tigerdrylac.com

Southeast
3400 Town Pt. Drive NW, Suite 140
Kennesaw, GA 30144
Phone: (770) 218-2490
Fax: (770) 218-2495
customerservicese@tigerdrylac.com

South
339 Exchange Drive
Arlington, TX 76011
Phone: (817) 277-7995
Fax: (817) 277-1931
customerservicesouth@tigerdrylac.com

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Powder Coating Institute

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