Derin®
Boya/Paints

Product No:	Product Name	PRIMERS & UNDERCOATS
AP- 100	**Metal Primer Synthetic 1k**	**General Characteristics :** Synthetic undercoat paint with alkyd resin base. Used in all kinds of metal surfaces, against corrosions. Contains zinc phosphate and iron oxide, and it is highly anti-corrosive. Resistant against thinned acids, bases and salt solutions. It adheres very well to the surface. Does not crack, puff out or shed. It suits all kinds of final layer paint. **Consumption :** Approximately 10-12 m² can be painted with 1 lt.
AP- 113	**Epoxy Metal Primer** Solvent Base Mix Ratio: 4/1	**General Characteristics :** Two component anti-corrosive metal undercoat with Epoxy resin base. Lead and chromate free. Excellent anticorrosive properties and good impact- and abrasion resistance. Highly resistant to a lot of chemicals, oil and sea water and corrosion, and it adheres excellently and is also resistant to abrasion and shocks. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), Concrete,floors bridges and railroads which require protection against corrosion. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 115	**Hold Paint Synthetic 1k**	**General Characteristics :** Modified alkyd-based paint. It is not affected by sea water, oil, petroleum and detergents . Used in painting the ship's hold and other internal sections in sea vehicles. Resistant against blows and corrosion. Resistance to dry heat is 120°C Semi-gloss appearance. Produced in three (Grey-Red and Aluminyum) colours. **Consumption :** Approximately 10-12 m² can be painted with 1 lt
AP- 116	**Epoxy Industrial Undercoat** Solvent Base Mix Ratio: 4/1	**General Characteristics :** **T**wo component anti-corrosive undercoat paint with Epoxy resin base. Produce only Grey color , matt looking Resistant to a lot of chemicals and corrosion. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils). Concrete, floors, bridges and railroads which require protection against corrosion. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP-117	**Epoxy Universal Primer** Solvent Base Mix Ratio: 4/1	**General Characteristics :** Two component anti-corrosive undercoat paint with Epoxy resin base. Recommended for undercoat for Epoxy Filler, Good sanding paper. Produce only Grey color , matt looking Resistant to a lot of chemicals and corrosion. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C Consumption : 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP-118	**Epoxy Industrial Primer** Solvent Base Mix Ratio: 7/1	**General Characteristics :** **T**wo component anti-corrosive undercoat paint with Epoxy resin base. Produce only Grey and Oxide Red colors , matt looking Resistant to a lot of chemicals and corrosion. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils). Concrete, floors, bridges and railroads which require protection against corrosion. Main material is mixed with hardener by 7:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film

Derin®
Boya/Paints

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AP- 120	**Red Lead Primer 1k**	**General Characteristics :** Highly anti-corrosive undercoat paint with alkyd base, containing a great amount of lead oxide. Used in all kinds of external and internal metal surfaces of the ships. Beside sea vehicles it can be used as an anti-corrosive undercoat paint in metal surfaces such as bridges, railroads and in other industrial locations. Top coat Paint should be used as a final layer. **Consumption :** Approximately 10-12 m² can be painted with 1 lt.
AP- 140	**Synthetic Undercoat 1k**	**General Characteristics :** Synthetic undercoat paint with alkyd resin base. Used in all kinds of external and internal metal surfaces of the boats. It adheres very well to the surface, does not crack, puff out or shed. Afterwards Synthetic Top Coat - Gloss Paint should be used as a final layer. **Consumption :** Approximately 10-12 m² can be painted with 1 lt.
AP- 145	**Heat Resistant Paint** HR/ 200 ° C	**General Characteristics :** Aluminum based finish suitable for interior and exterior application for steel . Heat resistance up to 200 °C is required. The product can be applied directly to the steel. Undercoat or primer no needs. Pipe lines, Plants, Engines. The product can be applied directly to the steel. **Consumption :** It is 200 g/ m² for each layer.
AP- 155	**Epoxy Zinc Rich Primer** Mix Ratio: 4/1	**General Characteristics :** Two pack polyamide cured epoxy primer. Pigmented with a high zinc content . Protection of steel structures against corrosion in industrial and marine environments. Fast curing (1 hour) and can be used as a holding primer. Main material is mixed with hardener by 4:1 ratio (weight).). Pot life is 2-3 hour at 20°C **Consumption :** 300 g/ m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 170	**Zinc Primer 1k**	**General Characteristics :** Synthetic modified resin based metal primer. Pigmented with a high zinc content. Protection of steel structures against corrosion in industrial environments. Fast (15-20 minutes) drying and can be used as a holding primer. It adheres very well to the surface, does not crack, puff out or shed. Afterwards Synthetic Top Coat - Gloss Paint should be used as a final layer **Consumption :** 200 g/ m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 180	**Epoxy Shop Primer** Mix Ratio: 4/1	**General Characteristics :** Two-pack polyamide cured epoxy shop primer loaded with non-toxic anti- corrosive pigments . Produce oxide Red and Gray Protection of steel structures against corrosion during construction. Protection of steel structures against corrosion in industrial and marine environments. Fast curing (1 hour) and can be used as a holding primer. Main material is mixed with hardener by 4:1 ratio (weight).). Pot life is 5-6 hour at 20°C **Consumption :** 150 g/ m² for each layer. (Approximate thickness of 60 Microns of dry film).
AP- 185	**Epoxy Shop Primer** Zinc -Silika	**General Characteristics :** A highly durable ethylsilicate shopprimer with a reduced zinc dust content for an optimal balance between welding speed and corrosion protection. It can withstand exposure to atmospheric conditions for periods up to 12 months. The primer can be recoated with Derin Marine products. Main material is mixed with hardener by 4:1 ratio (weight).). Pot life is 5-6 hour at 20°C Fast curing (1 hour) and can be used as a holding primer. **Consumption :** 150 g/ m² for each layer. (Approximate thickness of 60 Microns of dry film).

Derin®
Boya/Paints

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AP- 190	**Galvanize Primer 1k**	**General Characteristics :** Highly anti-corrosive undercoat paint. Developed for galvanize surfaces. **U**sed in all kinds of external and internal galvanize surfaces.. Fast (15-20 minutes) drying and can be used as a holding primer. **Consumption :** It is 200 g/ m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 219	**Epoxy Marine Undercoat** Solvent Base Mix Ratio: 4/1	**General Characteristics :** Two component anti-corrosive undercoat with Epoxy resin base. Color is grey and its outlook is mat. Resistant to a lot of chemicals, oil and sea water and corrosion, and it adheres excellently Resistant to abrasion and shocks. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), in concrete, floors, bridges and railroads which require protection against corrosion. Epoxy Undercoat is used as an undercoat for surfaces that Epoxy Filler or Epoxy Final Layer will be applied on. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 250	**Polyurethane Undercoat** Mix Ratio: 4/1	**General Characteristics :** Two component Polyurethane Undercoat is mainly used as un undercoat for finishing coats. Can be easily sanded to a sound and smooth base coat for Derin PU Finish and other finishes. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 4 hours at 20°C Relative humidity should be less than 90 %RH **Consumption :** I250 g/m² for each layer. (Approximate thickness of 60 Microns of dry film).
AP- 255	**Polyurethane Metal Primer** Mix Ratio: 4/1	**General Characteristics :** Two component anti-corrosive undercoat with Polyurethane resin base. Resistant to a lot of chemicals, oil and sea water and corrosion, and it adheres excellently Improved by zinc phosphate and other anticorrosive fillers Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), in concrete, floors, bridges and railroads which require protection against corrosion. Epoxy Undercoat is used as an undercoat for surfaces that Epoxy Filler or Epoxy Final Layer will be applied on. Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 466	**Epoxy Mastic** Solvent Base Mix Ratio: 4/1	**General Characteristics :** A high solid epoxy primer/coating formulated with Derin-Mastic binder Technology for metal surfaces. Derin-Epoxy Mastic has excellent anticorrosive properties and good impact- and abrasion resistance. Used as a primer and topcoat. Good adhesion to St3 prepared steel substrates and compatible with most aged coatings. Resistant to a lot of chemicals, oil and sea water and corrosion. Adheres excellently to the surface Resistant to abrasion and shocks. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), Bridges,pipe lines and railroads which require protection against corrosion Produced Grey, Oxide Red and Aluminum color Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** I250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).

Derin®
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AP-467	**Epoxy AL Mastic** Solvent Base Mix Ratio: 4/1	**General Characteristics :** A high solid epoxy primer/coating formulated with Derin-Mastic binder Technology for ALUMUIM surfaces. Derin-Epoxy AL Mastic has excellent anticorrosive properties and good impact- and abrasion resistance. Good adhesion to St3 prepared steel substrates and compatible with most aged coatings. Resistant to a lot of chemicals, oil and sea water and corrosion, and it adheres excellently Resistant to abrasion and shocks. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), bridges and railroads which require protection against corrosion Produced Grey color Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP-480	**Epoxy Military Mastic** Solvent Base Mix Ratio: 4/1	**General Characteristics :** A high solid epoxy primer/coating formulated with Derin-Mastic binder Technology for metal surfaces. Military Mastic has excellent anticorrosive properties and good impact- and abrasion resistance and flex. Good adhesion to St3 prepared steel substrates and compatible with most aged coatings. Resistant to a lot of chemicals, oil and sea water and corrosion, and it adheres excellently Resistant to abrasion and shocks. Used in marine, cost guard, submarine, military vehicle Produced Grey and Black colors Main material is mixed with hardener by 4:1 ratio (weight). Pot life is 1 hour at 20°C **Consumption :** 250 g/m² for each layer. (Approximate thickness of 80 Microns of dry film)
AP- 675	AQUA **Metal Primer** Water Base	**General Characteristics :** A high solid water based primer formulated with NanoTechnology for metal surfaces. APEO free styrene acrylic copolymer emulsion. Excellent anticorrosive properties and good impact- and abrasion resistance. Resistant to a lot of chemicals, oil and sea water and corrosion. Adheres excellently to the surface. Resistant to abrasion and shocks. None Flam able, fire retardant. Used in plants and industrial sites which require chemical resistance (against thinned acids, natural and mineral oils), Produced Grey and Oxide Red color **Consumption :** 200 g/m² for each layer. (Approximate thickness of 80 Microns of dry film).
AP- 690	AQUA **Galvanize-Metal Sealer** Water Base	**General Characteristics :** Protective primer material, styrene acrylic copolymer emulsion. APEO free styrene acrylic copolymer emulsion Provides adhesion of metal, galvanized and aluminum surfaces of water-based top coat paint and coatings. NanoTechnology for metal surfaces, Effective on rust. None Flam able, fire retardant. Increases adhesion on metal surfaces of water-based products, provides long-lived applications. Produced Pink color **Consumption :** Approximately 0,150 L/m2 for single coats

General Application Details:

1- The surface must be cleaned from dust, oil, dirt and corrosion which will decrease adherence.
2- Relative humidity should be less than 90 %RH.
3- Do not apply under +8°C and above +35 °C
4- Do not mix more paint than can be used in 1 hour.
5- Use suitable thinner for each product.
6- Consumptions only to give an idea; should be change depends the surface.
7- Before application use TDS and MSDS forms.