



شركة روبرت سروجي وشركاه | Robert Srouji & Co.
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Metal Coatings







60

For the optimum protection of various metals and steel structures, the combination of proper surface preparation and suitable systems are key to establishing a long lasting protective and aesthetically pleasing paint coat. Another very important factor to the success of the metal protective paint system, lies in recognizing the corrosiveness of the environment to which the structure will be exposed, thus identifying the correct paint system that suites the project at hand.

HASCO's wide range of Metal coating paints, along with the technical expertise of its customer support team; insure that projects are specified the correct paint system that offers a long lasting finish.

YEARS

HASCO Metal Primers & Midcoats



HASCO AC PRIMER

Fast drying, one component, self priming solvent-based Acrylic coating, with Zinc Phosphate anticorrosion pigments. The end result is an economic, quick drying coat, with high weathering resistance, over ferrous and non ferrous metals.

HASCO ETCH/ WASH PRIMER

PVB mono-catalyzed etch/wash primer, providing extremely fast drying, and very high adhesion to all types of metals, including light metals, such as Aluminum and Copper.
HASCO ETCH/WASH PRIMER

is weld-able in thicknesses up to 80 micron, making it very useful as a pre-fabrication anti-corrosive, thin film primer. Suitable as a direct to metal key primer, in vehicle and automotive coating systems

HASCO EPOPRIME 70 ZD

Zinc rich, Polyamide Epoxy primer, with high inorganic Zinc content, for extreme corrosion protection through cathodic protection. HASCO EPOPRIME 70 ZD provides a fast drying, corrosion protection film capable of low

temperature curing down to 0 degrees Celsius. Ideal as a primer in highly corrosive environments.

HASCO

EPOPRIME 70 ZP

Two component Epoxy/
Polyamide primer, with high
Zinc Phosphate content.
EPOPRIME 70 provides a fast
drying, corrosion protection
film capable of low

temperature curing down to
0 degrees Celsius. Ideal in
industrial and urban areas.

HASCO

INTERCOAT 75

Two component, high solids,
Epoxy paint. Suitable as an
intermediate tie-coat when
extra corrosion protection is
required.

HASCO

EPOXY MIOX BARRIER 75

Two component, high solids, Epoxy paint,
containing high levels of Micaceous Iron
Oxide, to provide extra corrosion protection
through water barrier effect. Suitable as an
intermediate tie-coat when extreme corrosion
protection is required in high humidity or
rainfall areas.

HASCO Metal Topcoats



HASCO CHEMOLAC MV

One component, non-saponifiable solvent-based Vinyl Co-polymer based coating, providing outstanding weathering characteristics. HASCOTON CHEMOLAC MV is especially suitable for marine

and coastal areas, when applied over corrosion suitable primers. HASCOTON CHEMOLAC MV is resistant to UV and water/salt-water damage.

HASCO EPOGUARD SUPREME MV

Two component, solvent-free Novolac Epoxy, providing extreme chemical and mechanical resistance. Suitable for industrial sectors such as food storage facilities, waste water treatment plants, pulp & paper production plants, and the petrochemical

industries. Due to its very high chemical resistance to a wide range of industrial chemicals, HASCO EPOGUARD SUPREME GF is particularly suitable as the final coat for chemical encapsulation silos.

- For a complete list of chemical resistance, check product TDS or email us at Sales@sroujiholding.com



HASCO

EPOXY CHEMODURE MV 70

Two component, high solids, Epoxy Phenol coating. Especially suited as a tough coating to resist high mechanical stresses and harsh chemicals. Also suitable as an exterior top coat for buried

pipes, and as an exterior coating of buried, encapsulation tanks. Can be used as a DTM coating inside oil/petrol storing tanks.

HASCO

HASCOTHANE AB

Two component, Aliphatic Polyurethane topcoat based on Polyacrylate resin, providing excellent UV, weathering resistance, and high chemical resistance. Recommended as a top coat

over suitable primers, for long lasting protection color and gloss retention of metal items and steel structures. Available in different gloss levels.

RAL & PANTONE COLORS AVAILABLE



| | |
|--------------|--|
| 3 | HASCO Introduction |
| 4-7 | HASCO Metal Primers & Midcoats |
| 8-13 | HASCO Metal Topcoats |
| 14-17 | HASCOLUX Specialized Metal Coatings |

CONTENTS



HASCO

EPOTAR/ POLYTAR

Two component, tar enforced coatings available in Epoxy or Polyurethane resins, especially suited as an

economical option to protect buried pipes, flanges or underground tanks.



HASCO

Specialized Metal

Coatings

HASCO

ANTIFOULING SAMOA

Vinyl-Chloride Acrylic antifouling paint, for use on boat and ship hulls below water line. Effective against a wide variety of hard-shell and

soft-shell marine life. This new "free from heavy metals" formula, meets the latest and most stringent global environmental laws.

HASCO

ANTOXIT HIGH HEAT HHB

One component Silicon based, high heat resistant coating, for direct to metal application. Resistant to temperatures up to 650

degrees Celsius, suitable for coating insulating stacks, exhaust pipes, engines and chimneys. Available in Black and Silver color.





HASCO GOLD/SILVER FINISH

One component, solvent-based, Acrylic coating, with weather stable metallic gold and silver colors. Suitable as decorative coating for interior and exterior use, without the need for a topcoat.



HASCO INSTUMAST 260

One component, solvent-based, Acrylic intumescent coating, capable of time up to 2 hours protection. This EN 13801 certified coating, provides a protective expanding char

layer when exposed to direct flame, which insulates steel structures thus protecting load bearing steel from reaching its softening (buckling) point.

HASCO AQUABAKE WB

Waterbased Polyester/Melamine drum and can coating. After 15 minutes baking at 150 degrees Celsius, this self priming, environmentally friendly

paint, provides an extremely chemically resistant film even as low as 40 microns. Ideal for coating the interior and exterior of drums and cans.



Epoxy System - 2 component

| | HACO Etch Primer | EpoPrime 70 | Epotar HD | Chemodur SF | Substrate |
|---|------------------|---------------------------------------|-----------|-------------|--|
| A | 1 x 40um | - | - | 2 x 60um | Aluminum in normal atmosphere |
| B | 1 x 40um | 1 x 80um | - | 1 x 60um | |
| C | 1 x 40um | 1 x 80um | - | 2 x 60um | Aluminum in humid and/or aggressive atmosphere |
| D | 1 x 40um | 2 x 80um | - | 1 x 60um | |
| E | - | 1 x 80um | - | 2 x 60um | Steel in normal atmosphere |
| F | - | - | 2 x 150um | - | |
| G | - | 2 x 80um | - | 2 x 60um | Steel in humid and/or aggressive atmosphere |
| H | - | - | 3 x 150um | - | |
| I | - | 1 x um | - | 2 x 60um | Zinc in normal atmosphere |
| J | - | - | 2 x 150um | - | |
| K | 1 x 40um | - | - | 2 x 60um | |
| L | - | 1 x 80um | 1 x 150um | - | |
| M | - | 2 x 80um | - | 2 x 60um | Zinc in humid and/or aggressive atmosphere |
| N | - | - | 3 x 150um | - | |
| O | 1 x 40um | 2 x 80um | - | 2 x 60um | |
| P | - | 1 x 80um | 2 x 150um | - | |
| Q | - | if absorbing 30um epoxyseal 50 | - | 30 x 60um | Concrete in normal atmosphere |
| R | - | if absorbing 30um epoxyseal 50 2x80um | - | 2 x 60um | Concrete in humid and/or aggressive atmosphere |

Polyurethane System - 2 component

| | HACO Etch Primer | EpoPrime 70 | Primer AB | Hascothane AB | Substrate |
|---|------------------|---------------------------------------|-----------|---------------|--|
| A | 1 x 10um | - | 1 x 50um | 1 x 40um | Aluminum in normal atmosphere |
| B | 1 x 10um | - | - | 2 x 40um | |
| C | 1 x 10um | 1 x 80um | - | 2 x 40um | Aluminum in humid and/or aggressive atmosphere |
| D | 1 x 10um | 1 x 80um | 1 x 50um | 1 x 40um | |
| E | 1 x 10um | - | 2 x 50um | 1 x 40um | |
| F | 1 x 10um | - | 2 x 50um | 1 x 40um | Steel in normal atmosphere |
| G | - | 1 x 80um | - | 2 x 40um | |
| H | 1 x 10um | 1 x 80um | 1 x 50um | 2 x 40um | Steel in humid and/or aggressive atmosphere |
| I | - | 1 x 80um | 2 x 50um | 2 x 40um | |
| J | - | 1 x 80um | 1 x 50um | 1 x 40um | Zinc in normal atmosphere |
| K | - | 1 x 80um | - | 2 x 40um | |
| L | 1 x 10um | 1 x 80um | 1 x 50um | 1 x 40um | |
| M | 1 x 10um | 1 x 80um | - | 2 x 40um | |
| N | - | 1 x 80um | 1 x 50um | 1 x 40um | |
| O | 1 x 10um | 1 x 80um | - | 2 x 40um | Zinc in humid and/or aggressive atmosphere |
| P | - | 1 x 80um | 1 x 50um | 1 x 40um | |
| Q | - | - | 2 x 50um | 2 x 40um | |
| R | - | if absorbing 30um epoxyseal 50 | 2 x 50um | 1 x 40um | Concrete in normal atmosphere |
| S | - | if absorbing 30um epoxyseal 50 1x80um | 2 x 50um | 1 x 40um | Concrete in humid and/or aggressive atmosphere |

Vinyl & Acrylic System - 1k/2k

| | Liquiclean | Hasco Etch Primer | Hascoton Chemolac | Hasco Abi | Substrate |
|---|----------------|-------------------|-------------------|-----------|--|
| A | CleanSubstrate | 1 x 40um | - | 1 x 100um | Aluminum in normal atmosphere |
| B | CleanSubstrate | 1 x 40um | 2 x 60um | | |
| C | CleanSubstrate | 1 x 40um | - | 2 x 100um | Aluminum in humid and/or aggressive atmosphere |
| D | CleanSubstrate | 1 x 40um | 3 x 50um | | |
| E | | - | 3 x 60um | | Steel in normal atmosphere |
| F | | 1 x 50um | - | 1 x 100um | |
| G | CleanSubstrate | 1 x 40um | - | 2 x 100um | Steel in humid and/or aggressive atmosphere |
| H | CleanSubstrate | 1 x 40um | 4 x 60um | | |
| I | | 1 x 40um | 2 x 60um | | Zinc in normal atmosphere |
| J | | 1 x 40um | - | 1 x 80um | |
| K | | 1 x 40um | 3 x 60um | | Zinc in humid and/or aggressive atmosphere |
| L | | 1 x 40um | - | 2 x 80um | |
| M | | - | - | 1 x 80um | Concrete in normal atmosphere |
| N | | - | 2 x 50um | | |
| O | | - | - | 2 x 80um | Concrete in normal atmosphere |
| P | | - | 4 x 50um | | |

Alkyd System

| | Hasco Etch Primer | UniPrime ALK | UniTop ALK | Substrate |
|---|-------------------|--------------|------------|-----------|
| A | 1 x 40um | 1 x 40um | 2 x 60um | Aluminum |
| B | 1 x 40um | - | 2 x 60um | |
| C | - | 2 x 40um | 2 x 60um | Steel |
| D | 1 x 40um | 1 x 40um | 2 x 60um | |
| E | 1 x 40um | - | 3 x 60um | Zinc |
| F | 1 x 40um | 1 x 40um | 2 x 60um | |

Hasco Resistance Table 1

| |
|------------------------------------|
| Load Period |
| I= Incidentally |
| R= Regular - Spilling |
| C= Constant - immersed |
| Resistance - Classification |
| E= Excellent Resistance |
| G= Good Resistance |
| N= Not Recommended |
| Blank= Consult Hasco |

| Coating system | | Epoxy system | | | Polyurethane system | | |
|------------------------|----------------------------|--------------|---|---|---------------------|---|---|
| Load Period | | I | R | C | I | R | C |
| Type of chemical water | Sweet | E | E | E | E | E | N |
| | Sweet & Saltish | E | E | E | E | E | N |
| Solvents | Alcohols (except Methanol) | E | E | | E | E | |
| | Aliphatics | E | G | | E | E | |
| | Aromates (xylene etc.) | E | G | | E | G | |
| | Carbon Tetrachloride | G | G | | G | G | |
| | Esters | E | G | | E | E | |
| | Ethylene glycol | E | E | | E | E | |
| | Petrol | E | E | | E | E | |
| | Glycol esters | G | G | | G | G | |
| | Ketones | E | G | | E | G | |
| | Trichloroethylene | G | G | | G | G | |
| | Acetic acid 10% | E | G | | E | G | |
| | Glacial acetic acid | N | N | | N | N | |
| | Fatty acids | E | G | | E | E | |
| Organic acids | Clitric acid 10% | E | E | | E | E | |
| | Lactic acid - diluted | E | E | | E | E | |
| | Lactic acid - concentrate | G | G | | E | G | |
| | Maleic acid 25% | G | G | | G | G | |
| | Oleic acid 100% | E | G | | E | E | |
| | Oxalic acid 20% | G | G | | E | E | |
| | Picric acid 10% | G | N | | E | N | |
| | Hydrochloric acid 37% | N | N | | G | G | |
| | Hydrochloric acid 20% | G | N | | G | G | |
| | Hydrochloric acid 5% | G | G | | G | G | |
| Inorganic acids | Hydrochloric acid 40% | N | N | | N | N | |
| | Nitric acid - concentrate | N | N | | N | N | |
| | Nitric acid 30% | G | N | | N | N | |
| | Nitric acid 5% | G | G | | G | G | |
| | Phosphoric acid 85% | N | N | | E | G | |
| | Phosphoric acid 50% | G | G | | E | E | |
| | Phosphoric acid 20% | E | G | | E | E | |
| | Sulphuric acid concentrate | N | N | | N | N | |
| | Sulphuric acid 10 - 50% | G | G | | E | E | |
| | Sulphuric acid 10% | E | G | | E | E | |
| | A.W. Battery acid 26% | E | G | | E | E | |
| | Boric acid - saturated | E | E | | E | E | |

Hasco Resistance Table 2

| |
|------------------------------------|
| Load Period |
| I= Incidentally |
| R= Regular - Spilling |
| C= Constant - immersed |
| Resistance - Classification |
| E= Excellent Resistance |
| G= Good Resistance |
| N= Not Recommended |
| Blank= Consult Hasco |

| Coating system | | Epoxy system | | | Polyurethane system | | |
|-------------------------------|---|-----------------|---|---|---------------------|---|---|
| Load Period | | I | R | C | I | R | C |
| Type of chemical acidic salts | Aluminium nitrate 10% | E | G | | E | E | |
| | Ammonium chloride | E | E | | E | E | |
| | Copper sulphate | E | G | | E | E | |
| | Ferric nitrate | E | G | | E | E | |
| | Zinc sulphate | E | G | | E | E | |
| Fertilizer 50% solution | Ammonium nitrate max 34% nitrogen | E | E | G | N | N | N |
| | Uream 46% nitrogen | E | E | G | N | N | N |
| | Magnesium ammonium nitrate 22% nitrogen | E | E | G | N | N | N |
| | Ammonium phosphate | E | E | G | N | N | N |
| Alkalis | Ammonia 28% | E | E | G | N | N | N |
| | Ammonia diluted | E | E | | E | E | |
| | Calcium hydroxide | E | E | | E | E | |
| | Caustic potash 50% | E | E | | E | E | |
| | Caustic potash 25% | E | E | | E | E | |
| | Caustic potash 10% | E | G | | E | E | |
| | Caustic soda solution 50% | E | E | | E | E | |
| | Caustic soda solution 20% | E | E | | E | E | |
| | Caustic soda solution 5% | E | G | | E | E | |
| | Sodium hypochloride | E | E | | E | E | |
| | Alkaline salts | Barium sulphide | E | E | | E | E |
| Sodium bicarbonate | | E | E | | E | E | |
| Sodium carbonate (soda) | | E | E | | E | E | |
| Sodium sulphide | | E | E | | E | E | |
| Trisodium sulphide | | E | E | | E | E | |
| Gases | Ammonia | E | E | | E | E | |
| | Chloride, dry | E | E | | E | E | |
| | Chloride, wet | E | G | | E | E | |
| | Hydrochloric acid | E | N | | E | E | |
| | Hydrogen sulphide, wet | E | E | | E | E | |
| | Sulphur dioxide, dry | E | E | | E | E | |
| | Sulphur dioxide, wet | E | G | | E | E | |

Hasco Resistance Table 3

| |
|------------------------------------|
| Load Period |
| I= Incidentally |
| R= Regular - Spilling |
| C= Constant - immersed |
| Resistance - Classification |
| E= Excellent Resistance |
| G= Good Resistance |
| N= Not Recommended |
| Blank= Consult Hasco |

| Coating system | | Epoxy system | | | Polyurethane system | | |
|----------------------------|---------------------------------------|--------------|-----|---|---------------------|-----|---|
| Load Period | | I | R | C | I | R | C |
| Oil & fat | Animal | E | G | | E | E | |
| | Mineral | E | E | | E | E | |
| | Vegetable | E | E | | E | E | |
| Various organic substances | Cutting oils | E | E | | E | E | |
| | Detergents | E | E | | E | E | |
| | Lubricants | E | G | | E | E | |
| | Crude oil | E | G | | E | E | |
| | Sewage | E | E | E | E | E | N |
| | Molasses | E | E | | E | E | |
| | Urine | E | E | E | E | E | N |
| | Waste water mud | E | E | E | E | E | N |
| Miscellaneous | Mildew | E | E | | E | E | |
| | General weather influences | E | G | | E | E | E |
| | Saltish industrial atmosphere | E | E | | E | E | E |
| | Wear | E | E | | E | E | |
| | Heat resistance in Celsius - dry heat | 150 | 150 | | 105 | 105 | |

Product Information & Application Table

| Product | Hardner | Thinner | Mixing Ratio | Application | Miscellaneous |
|----------------------------|---------------------|---------|---------------------------------------|---|---|
| Hasco Etch Primer | N/A - 1K | PU-66 | Thinner 20-50% | All metal substrates | Fast drying key primer |
| Hasco Wash Primer | 5% Activator | PU-66 | PU 20-50%, Actv 5% | All metal substrates especially galvanized steel | Fast drying key primer |
| Hasco AC Primer | N/A - 1K | PU-66 | Thinner 20-50% | Steel substrates | Economic acrylic primer |
| EpoPrime 70 | Hardener 5N | PU-66 | Hardener 10% <small>by volume</small> | Steel & metal substrates | High corrosion protection for steel & metal substances |
| EpoGuard Supreme GF | Hardener 5N | PU-66 | Hardener 15% <small>by volume</small> | Silos, tanks, chemical plants, etc | Outstanding chemical & mechanical resistance |
| Epotar HD | Epoxy Hardener 4N | PU-11 | Hardener 50% <small>by volume</small> | Corrosion protection of buried pipes, flanges, valves, & underground storage tanks | Not affected by sulphates in soil water. Excellent resistance to water & alkali's |
| Polytar HD | Hardener AN | PU-66 | Hardener 50% <small>by volume</small> | Corrosion protection of buried pipes, flanges, valves, & underground storage tanks | Does not sheild cathodic protection, non shrinking. |
| Hascothane AB | Hardener ANSP | PU-66 | Hardener 20% <small>by volume</small> | Aliphatic polyurethane topcoat over suitable primers for metal protection. | Excellent exterior stability. Compatible over PVB, epoxy, and phenolic primers & intermediates (testing required for other primer systems). |
| Hasco Abi | Refer to data sheet | PU-66 | Thinner 20-50% | Fast drying thick protective coating with superior mechanical & chemical resistance and gloss retention. | ABi is designed to suit nearly all OEM & ACE finishing applications |
| Chemodur SF | Epoxy Hardener 4N | PU-66 | Hardener 40% <small>by volume</small> | Applied on concrete & steel surfaces over suitable sealers & primers. | Resistant against water & water pooling. High mechanical & abrasion resistance. |
| Intercoat 75 | Epoxy Hardener 4N | PU-11 | Hardener 10% <small>by volume</small> | Intermediate coat to provide extra corrosion protection for steel & metal substrates over suitable primer | Compatible over PVB, epoxy, & phenolic primers & intermediates (testing required for their primer systems) |
| Primer AB | Hardener AN/ANSP | PU-66 | Hardener 20% <small>by volume</small> | 2K polyurethane metal primer & surfacer | Easy to apply even on vertical surfaces. High filling power. |
| Hascoton/Chemolac | N/A - 1K | PU-66 | Thinner 10-50% | 1K thermoplastic coating based on polyvinyl chloride resin for steel & concrete | Self priming over steel or galvanized steel, or as a top coat over suitable primers or intumescent coating. |
| Intumast 260 | N/A - 1K | PU-66 | Thinner 20-50% | 1 component thin film intumescent coating for protection of all steel profiles up to 120 minutes | Fire proofing on vertical & horizontal surfaces with excellent durability. |
| Antoxit HHB | N/A - 1K | N/A | Ready to use | Self priming over properly prepared steel | Heat resistant silicon based coating up to 650 degrees celsius. |
| Aquabake WB | N/A - 1K | Water | Application method dependant | Waterbased high bake can & coil coating | Outstanding chemical & mechanical resistance, excellent coverage at 50 micron WFT only |
| Hasco Gold & Silver Finish | N/A - 1K | PU-66 | Thinner 20% | Application over proper primers on wood, metal & concrete | Coach-work, metal doors, machine parts, toys, decorative furniture, etc. |
| Finguard HD | Hardener AN | PU-66 | Thinner 30% | Suitable for direct application over i norganic zinc | High solids 2K solvent based aliphate polyester based polyurethane |