

ma^{*}ster[®] PAINTS

INDUSTRIAL COATINGS



COMPANY PROFILE

MISSION	To be recognized and respected as one of the premier quality paint manufacturing company of Pakistan.
INTRODUCTION	Master Paints Industries (Pvt) Ltd is considered as one of the Pakistan's leading High Quality Paint Manufacturing Company and having EN ISO 9001:2008, EN ISO 14001:2004, OHSAS 18001:2007 certified. Formed in 1975, the foremost objective of the company was to introduce modern paint technology in Pakistan. Soon after its existence, it acquired a very sound position by attaining considerable market share and soon became one of the leading decorative paint manufacturing companies in Pakistan in terms of quality.
PRODUCTS	Master Synthetic Enamel, Master Luxury Plastic Emulsion, Master All Seasons Weather Resistant, Master Super Emulsion, Master Matt Enamel, Master Synthetic Metallic Finish, Master Texture Finish, Master Wall Putty, Master Under Coat, Master Primer Red Oxide, Master Synthetic Clear Varnish, Master Knifing Filler, Master Synthetic Commander, Wood Master Sanding Sealer, Wood Master Thinner, Wood Master Gloss Lacquer & Wood Master Matt Lacquer.

CONTENTS OF SHADE CARD

This Shade Card has been designed to provide our customers with shades and technical data sheets of our most widely used range of protective coolings:

MASTER SYNTHETIC/METALLIC ENAMEL	3-8
MASTER RED OXIDE PRIMER	9-10
MASTER EPOXY FINISH	11-15
MASTER ALUMINIUM PAINT	16-18
MASTER ROAD MARKING CR PAINT	19-22
MASTER PU ENAMEL	23-27
SAFETY AND ENVIRONMENT NOTES	28-30

Shades displayed in this are mostly use as a standard; however, for specific quantities and their availability, details have to be discussed with our sales representatives.

MASTER SYNTHETIC/METALLIC ENAMEL

PRODUCT INFORMATION

DESCRIPTION Master Superior Synthetic Enamel is fabulous class synthetic enamel having no comparison in quality. It provides a tough smooth film which is washable and offers high resistant to mechanical area. The composition of this paint is based on high quality long oil alkyd resin and long-lasting pigments.

RECOMMENDED USE It is suitable for all types of interior and exterior wood, metal and cements surfaces.

PHYSICAL CONSTANTS

PACK SIZE 0.91 LTR ,3.64 LTR & 14.56 LTR (Tin Pack)

FINISH Gloss

THEORETICAL SPREADING RATE 14 to 17Sqrmtlr/liter/coat (25±5-microns)

FLASH POINT 35°

DRYING TIME 12 -Hours Between coats

Physical constants are subject to normal manufacturing tolerances

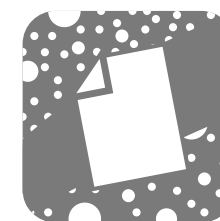
APPLICATION DETAIL

APPLICATION METHOD	Brush, Roller or Spray
THINNER	White Spirits or Turpentine Oil
THINNING	By Roller or Brush 10 – 15%& By Spray 25%
NO. OF COATS	2 to 3 Coats
CLEANING	Clean all equipment with turpentine

TYPICAL SURFACES

NEW SURFACES Surface must be clean, dry and free from efflorescent salts. Prime with Master Primer.

PREVIOUSLY PAINTED SURFACES Thoroughly clean surface Remove all defective or poorly adhering material by rubbing down using a suitable abrasive paper and dust off. Prime with Master Primer.



USE ABRASIVE PAPER



DUST OFF



SEAL A COAT WITH PRIMER

Keep away from ignition sources because it is flammable. If you are non-professional please don't use large surface. Ventilation should be ensured because it contains white spirit. Always keep container air tight. Please follow all local and national safety regulations.

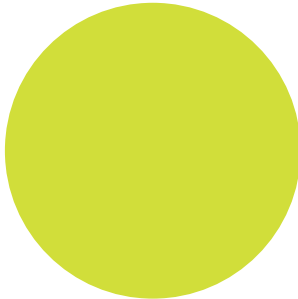
SYNTHETIC ENAMEL



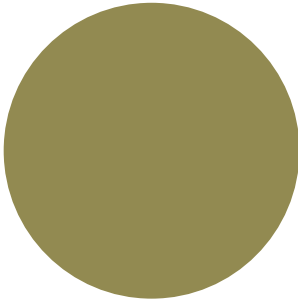
ASH
WHITE



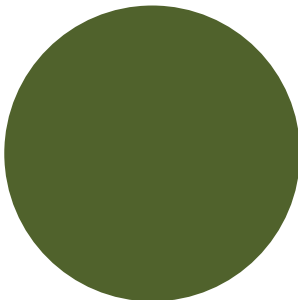
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WHITE



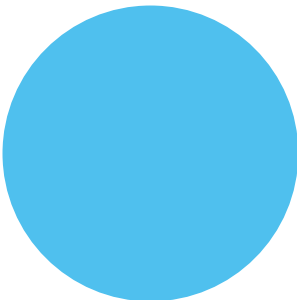
EAU-DE-NIL



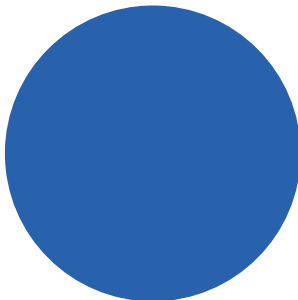
GOLDEN
BROWN



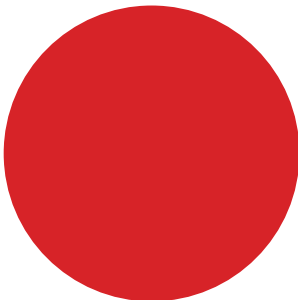
ROYAL
GREEN



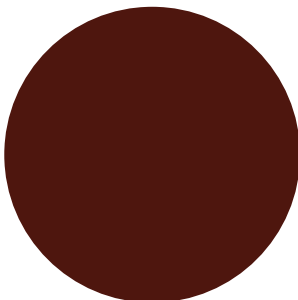
LIGHT
BLUE



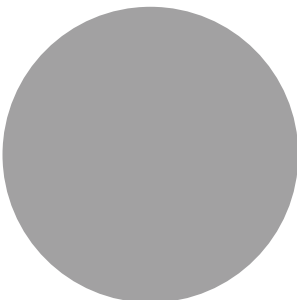
MIDDLE
BLUE



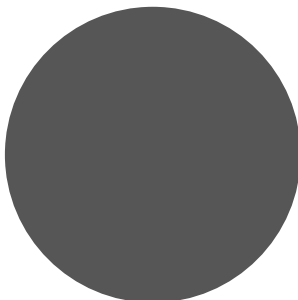
SIGNAL
RED



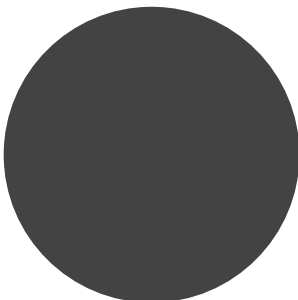
DARK
BROWN



MASTER
GREY



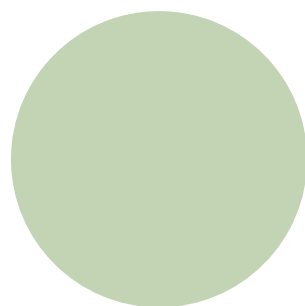
SMOKE
GREY



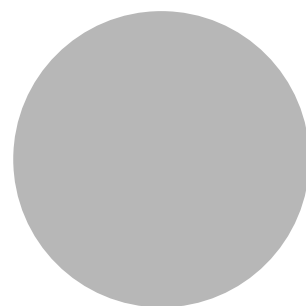
DARK
GREY



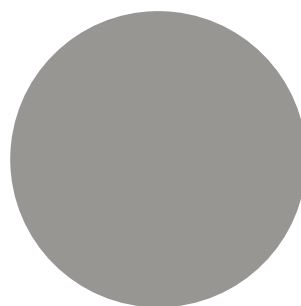
METALLIC ENAMEL



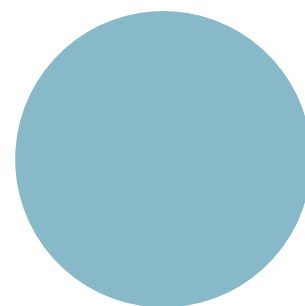
SHINY
GREEN



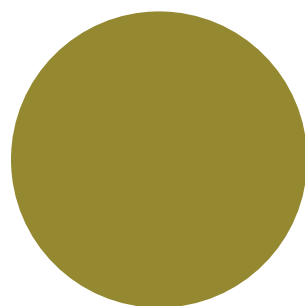
SPARKLING
SILVER



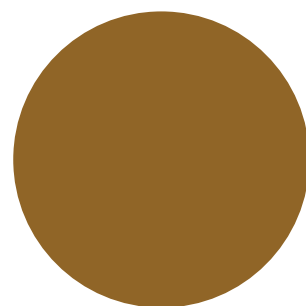
BROWN
SHEEN



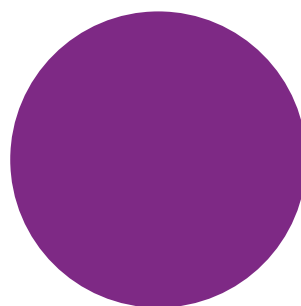
OCEAN
BLUE



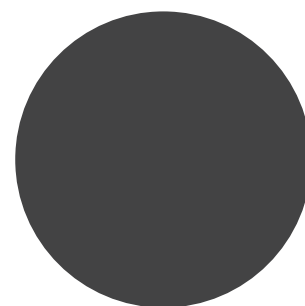
BRIGHT
GOLD



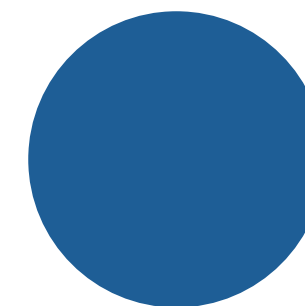
COPPER



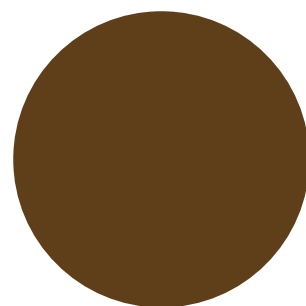
VIOLET



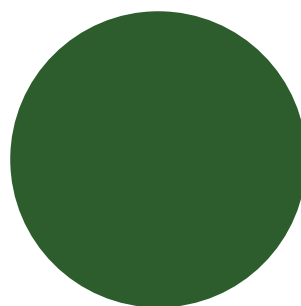
BLACK
PEARL



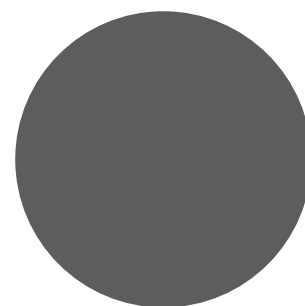
MASTER
BLUE



MASTER
BROWN



JEEP
GREEN



CHAMPAGNE



MASTER RED OXIDE PRIMER

PRODUCT INFORMATION

DESCRIPTION Master Primer Red Oxide is a solvent based anti-corrosive primer based on alkyd resin

PRODUCT FEATURES As a general purpose primer for exterior and interior ferrous and non ferrous metal work including new weather and pre-treated zinc and galvanized iron and it may be applied at pre-treated aluminum.

TECHNICAL INFORMATION

COLOURS / SHADE Red Oxide

FINISH Matt

VOL SLIDE 50 ± 2 %

THEORETICAL SPREADING RATE 13 Sqr mtr /liter/coat (30 ± 5-microns)

FLASH POINT 35°

DRY TO TOUCH 4-Hours

HARD DRYING 16-Hours

Physical constants are subject to normal manufacturing tolerances.

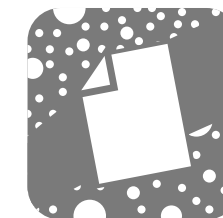
APPLICATION DETAIL

APPLICATION METHOD	Brush, Roller or Spray
THINNER	White Spirits or Turpentine Oil
THINNING	By Roller or Brush 10 – 15%& By Spray 25%
NO. OF COATS	2 to 3 Coats
CLEANING	Clean all equipment with turpentine

TYPICAL SURFACES

NEW SURFACES Surface must be clean, dry and free from efflorescent salts. Prime with Master Primer.

PREVIOUSLY PAINTED SURFACES Thoroughly clean surface Remove all defective or poorly adhering material by rubbing down using a suitable abrasive paper and dust off. Prime with Master Primer.



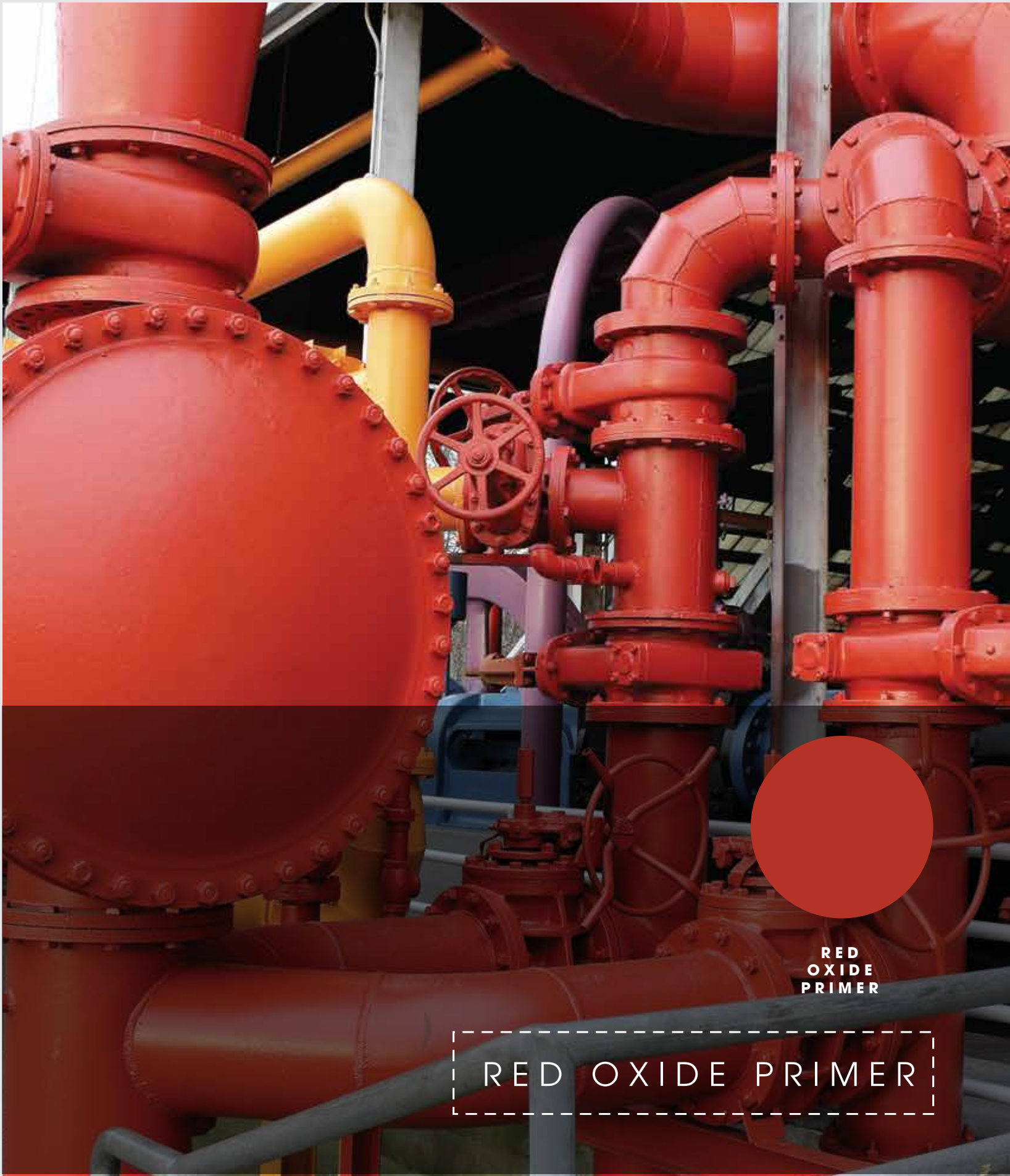
USE ABRASIVE PAPER



DUST OFF



SEAL A COAT WITH PRIMER



MASTER EPOXY FINISH

PRODUCT INFORMATION

DESCRIPTION	A two pack epoxy hi-build coating.
PRODUCT FEATURES	High build coating. For use in industrial and corrosive marine service. Areas subject to heavy wear and tear. Portable water storage tanks.

Also available in solvent free epoxy

TECHNICAL INFORMATION

COLOURS / SHADE	White and Grey, other colors on request.
FINISH	Semi-Gloss
GENERIC TYPE	Epoxy
VOL SOLID	52%
MIXING RATIO	4 : 1
SPREADING RATE	5.2 m2/ L. @100 µm dft
DRYING TIME	2 -4 hrs at 30 �C
RECOATING TIME	8 – 12 hrs
INDUCTION TIME	15 mins

POT LIFE	8 hrs
CURING TIME	Attains maximum hardness and chemical resistance 4 - 7 days.
THINNER / CLEANER	Epoxy
WEIGHT / LITRE	1.20 – 1.30 kg.
FLASH POINT	23 oC, 73 oF
FURTHER COAT	Coat on coat
PACKING SIZE	4 liters kit

SURFACE PREPARATION

NEW PLASTER, CONCRETE BRICK WORK	The concrete must be fully cured, e.g. 28 days for normal Portland cement, and completely dry with humidity content in the surface below 4%. Primed/Sealed with 2-pack Epoxy Clear.
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PRODUCT FEATURES	Primed with 2-Pack Epoxy Primer.
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APPLICATION

Brush or airless spray (preferable). Airless spray tip 13 thou, 2000 P.S.I. Not to be applied below 1° C. Mix individual components to uniform consistency, then combine in recommended ratio, allow to stand 15 min. before use. Thin as required For brush or spray application with recommended thinner. Do not thin separately packed components. Use of thinner other than that specified or recommended may adversely affect the product performance. Mix only that quantity which is supposed to be consumed within the pot life of paint.

CONDITIONS DURING APPLICATION

The temperature of the substrate should be min. 3°C above the dew point of the air, temperature and relative humidity not more than 70% measured in the vicinity of the substrate. Good ventilation is necessary when the paint is used in confined spaces. Mix the paint to uniform consistency before application.

TYPICAL PAINTING SYSTEM

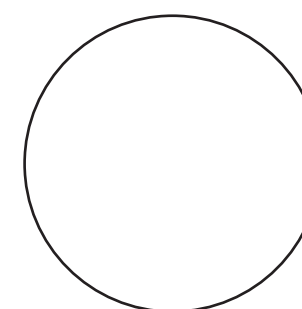
ON CONCRETE

MASTER EPOXY CLEAR/SEALER	1 x 30 µm
MASTER EPOXY COATING	2 x 100 µm

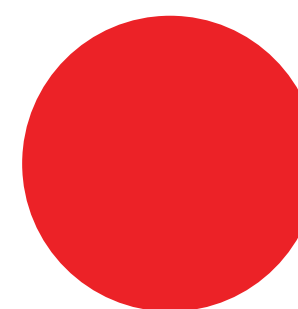
ON STEEL

MASTER EPOXY PRIMER	1 x 50 µm
MASTER EPOXY COATING	2 x 100 µm

Also available in Clear Epoxy Primer for Base coat and ZP Primer Color Strips for galvanized surfaces and anti corrosive coatings



**CLEAR
EPOXY
PRIMER**



**ZP PRIMER
RED OXIDE**



MASTER ALUMINIUM PAINT

PRODUCT INFORMATION

DESCRIPTION	Master aluminum paint is a High Quality solvent based paint with an aluminum finish.
RECOMMENDED USE	It is used for interior and exterior on wood and metal surfaces.

Also available TEMP up to 500 F

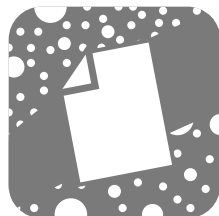
PHYSICAL CONSTANTS

COLOURS / SHADE	Aluminium
FINISH	Gloss Finish
COMPOSITION	Pigment : Leafing Aluminium Blinder: Alkyd Solvent: White Spirit
THEORETICAL SPREADING RATE	14-17 m2 /liter
FLASH POINT	35
DRY TO TOUCH	4-Hours
HARD DRY TIME	16 Hours
FILM THICKNESS	30 ± 5

Physical constants are subject to normal manufacturing tolerances.

APPLICATION DETAIL

APPLICATION METHOD	By Brush or Spray
THINNER	White Spirits
THINNING	10 - 15%
NO. OF COATS	02 No
CLEANING	Clean all equipments with turpentine or thinner
SURFACE PREPARATION	Surfaces must be clean, dry, free from all defective or poorly adhering material, dirt, grease, wax etc. Previously painted surfaces should be thoroughly rubbed down using a suitable abrasive paper and then dusted off.



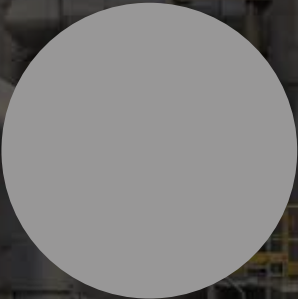
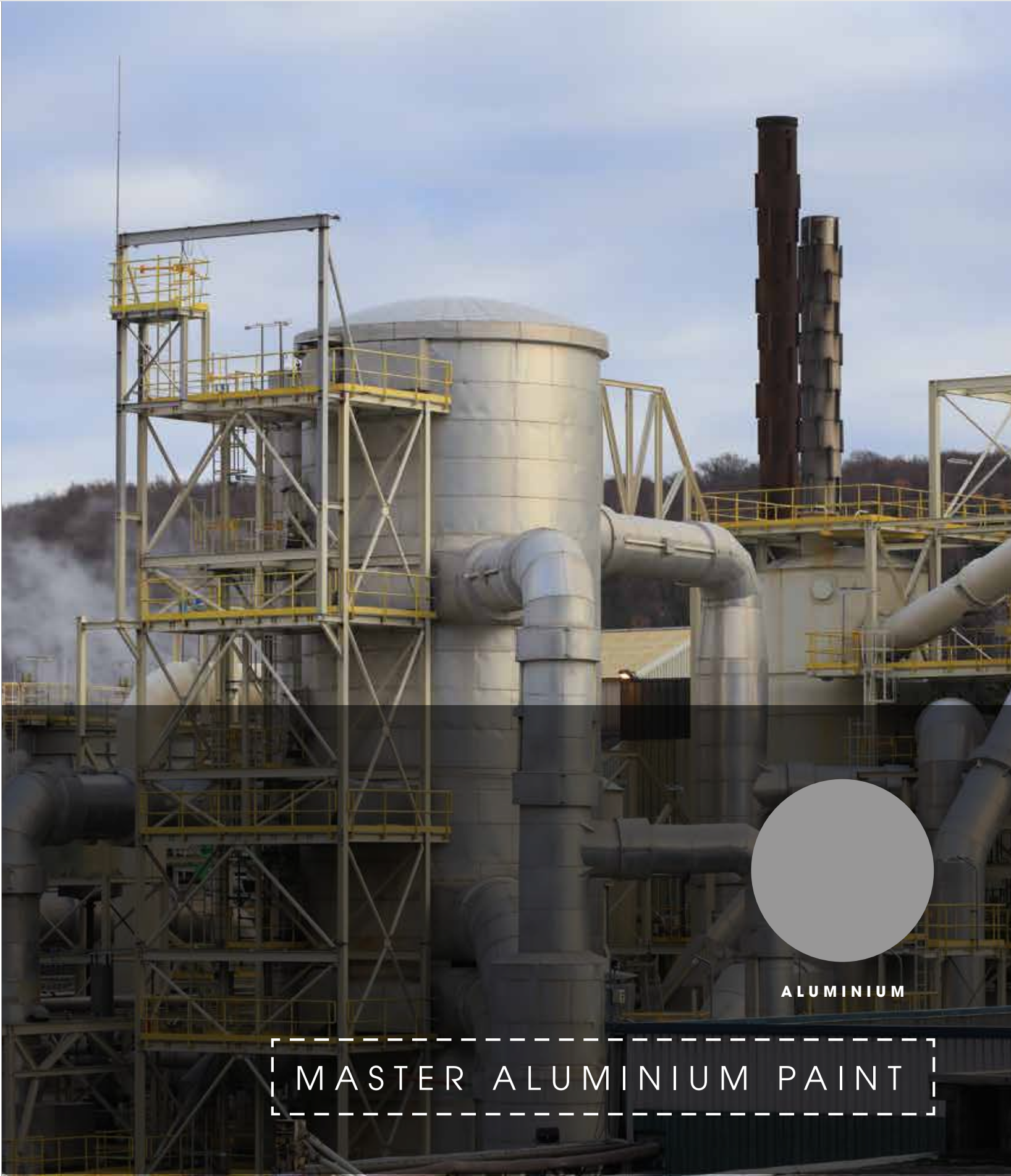
USE ABRASIVE
PAPER



DUST OFF



SEAL A COAT
WITH PRIMER



ALUMINIUM

MASTER ALUMINIUM PAINT

MASTER ROAD MARKING CR PAINT

PRODUCT INFORMATION	
DESCRIPTION	Road Marking Paint C. R is an acrylic based quick drying paint modified with chlorinated rubber
RECOMMENDED USE	For use on asphalt and concrete roads, primarily for curbstones, speed humps or other areas with High traffic.
PHYSICAL CONSTANTS	
COMPOSITION	Chlorinated Rubber/Medium Oil Alkyd
PACK SIZE	03.64 LTR & 20 LTR (Pack)
FINISH	Flat
COLOR	White, Black and Yellow.
THEORETICAL SPREADING RATE	2 – 3.5 Sq. Mtr. Per Liter @ 1.00 – 1.50MM DFT 10-14 Sq.Mtr Per liter @ 30-50 Microns DFT
DRYING TIME TACK FREE FLASH POINT	15 – 20 min at 30 °C. Recoating time 2-3 hour. 40 °F Physical constants are subject to normal manufacturing tolerances

TECHNICAL SPECIFICATION	
RESIN TYPE	Chlorinated Rubber & Medium Oil Alkyd Resin Combination
SOLIDS	Weight: 75.0 ± 1.0% Volume: 53.0 ± 1.0%
WEIGHT PER LITER	1.46 Kg – 1.6 Kg.
VISCOSITY	70 to 80 KU (Krebs Units)
FLASH POINT	40°F (TT-P-141, Method 4293)
SPECULAR GLOSS	1 – 5 units @ 85%
LIGHT REFLECTANCE	89%
APPLICATION DETAIL	
APPLICATION METHOD	By Airless or conventional spray/ brush/ roller
THINNER	Master Thinner
THINNING	As required
CLEANING	Clean all equipment with Master thinner.

TYPICAL SURFACES

NEW SURFACES

The substrate must be sound, clean, dry, free from dust, oil, grease and laitance etc. All traces of release agents must be removed. On chalky & dusty surfaces, all loose material must be removed by stiff bristle brushing.

STORAGE

The product must be stored in accordance to national regulations. The product should be kept in well-ventilated place, protected from heat and direct sunlight. The containers must be kept tightly closed.

HANDLING

Handle with care. Stir well before use.



USE ABRASIVE
PAPER



DUST OFF



MASTER POLYURETHANE GLOSS FINISH

PRODUCT INFORMATION

DESCRIPTION A two component Acrylic Polyurethane giving a high performance finishes in new construction and maintenance industries.

- Features
- Excellent gloss and color retention on exterior & interior exposures
 - Outstanding mar resistance-recommended as scratch resistant finish
 - Long term recoat able properties.
 - Resistant to large number of chemicals and water.
 - Can be applied to a wide range of substrates.

- RECOMMENDED USE
- As a finishing coat for structural steel in aggressive corrosive environments.
 - As a topcoat for the exterior of chemical storage tanks, pipelines.
 - As a durable topcoat for topsides modules in the offshore industry.

TECHNICAL INFORMATION

COLOR As Per Shade Card

FINISH Gloss

GENERIC TYPE Polyurethane Coating

TECHNICAL INFORMATION

VOL SOLID 45%

MIXING RATIO 3:1

SPREADING RATE A spreading rate of 10-14 m2/liter @ (30-40) Microns DFT

DRYING TIME 2 -4 hrs. at 30  C.

RECOATING TIME 8 – 12 hrs.

POT LIFE 6 hrs.

CURING TIME Attains maximum hardness and chemical resistance 4 - 7 days.

THINNER / CLEANER PU Thinner

FLASH POINT 23  C, 73  F

FURTHER COAT 2-3 Coats

PACKING SIZE 4 litres kit.(3+1)

COMPONENTS 02

RECOMMENDED PRIMER Epoxy Zinc Phosphate Primer

SURFACE PREPARATION

Polyurethane Finish is a specialized chemical resistant finish and requires sound preparation and a suitable Priming system to perform to its optimum. It is recommended that potential specifiers follow guidelines for preparation from the Data Sheet for the primer system selected.

This is the recommended method of application:
By Brush Roller Or Airless Spray
Stir each component thoroughly before mixing.
Add Comp. B to Comp. A in the ratio supplied and mix until uniform in color and consistency.
Allow to absorb for 20 minutes before application.
As this material tends to set up quickly, application should be made with minimum of crossing or lying off. Thin up to 10-20% per liter with Thinner for PU mixing thoroughly before application.



USE ABRASIVE
PAPER

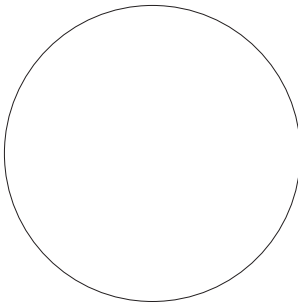


DUST OFF



SEAL A COAT
WITH PRIMER

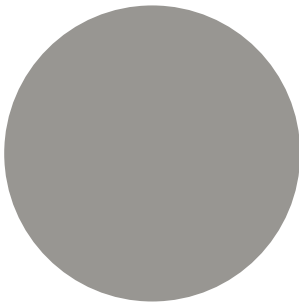
PU GLOSS FINISH



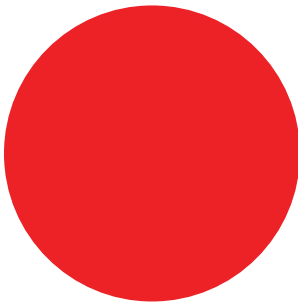
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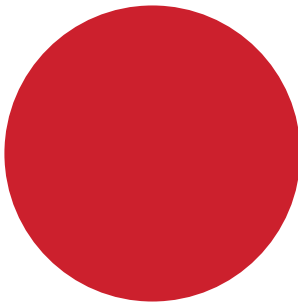
DEEP
ORANGE



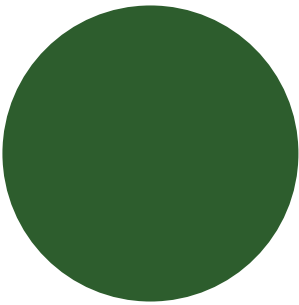
RAL-7040



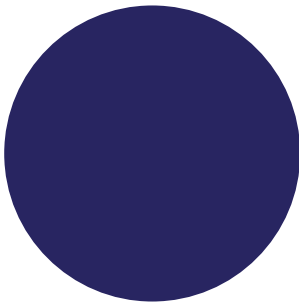
RED



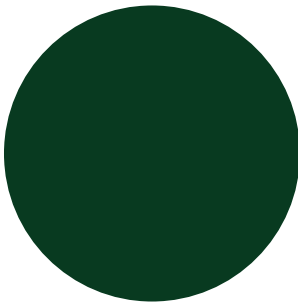
WR3 RED



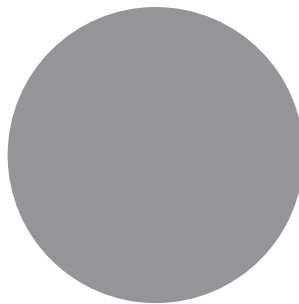
SIGNAL
GREEN



BLUE



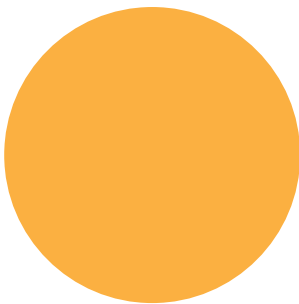
M.B.
GREEN



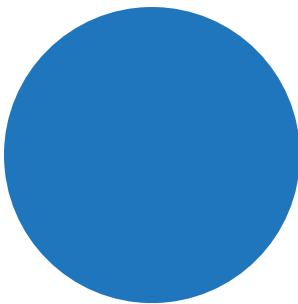
OYSTER
GREY



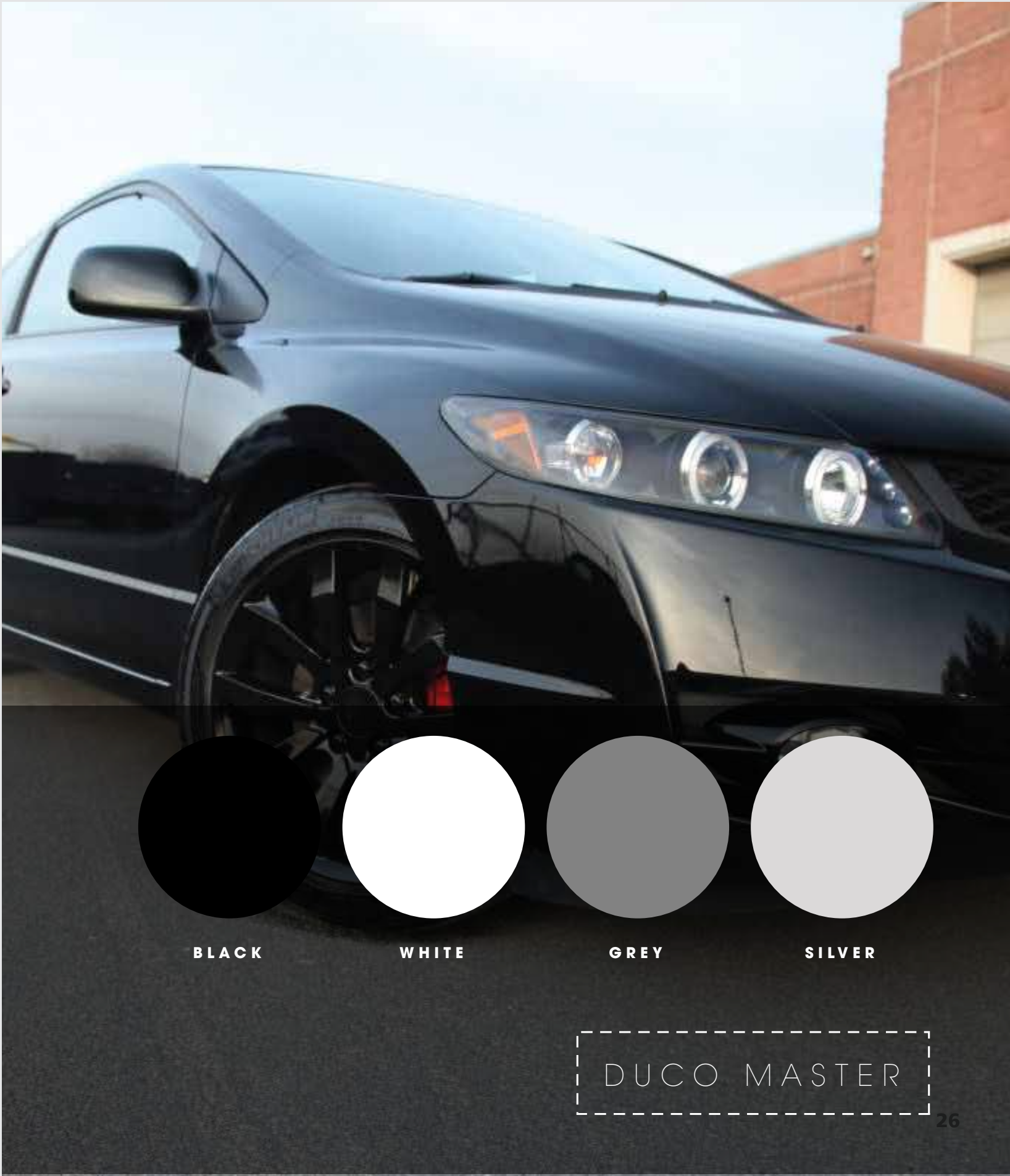
OFF
WHITE



YELLOW



MID
BLUE



DUCO MASTER (NC CAR PAINT)

PRODUCT INFORMATION

DESCRIPTION

Vehicle refinish business is to offer touch-up paints that precisely match the original color of vehicles. Duco Master is produced for fast and efficient refinishing of automobiles. This product is recommended for all motor vehicles.

PRODUCT FEATURES

- Nitro cellulosic high quality paint
- High opacity, fast drying time, high gloss

TECHNICAL INFORMATION

APPLICATION

By spray

THINNER

Duco master thinner

No OF COATS

Apply 2-3 coats

DURATION

5-10 minutes between coats

DRYING TIME

4-6 hours drying time before polishing the surface

PACKING

Duco master thinner

AVAILABLE SHADES

Basic, Toyota and Suzuki, Metallic

APPLICATION INSTRUCTION

Stire well before use

SOLID COLORS

1 ratio Duco Master Paint + 2 ratio Duco Master Thinner

METALIC COLORS

1 ratio Duco Master Paint + 1,1.5 ratio Duco Master Thinner



DUST OFF

SPECIALIZED WOOD FINISHES (Lacquer)

PRODUCT INFORMATION

DESCRIPTION

Wood Master G Lacquer is a protective and decorative nitrocellulose based lacquer which provides hard, scratchproof, smooth and transparent gloss finish or matt finish, Formulated as a topcoat on NC paint systems where fast drying, hard and clear high gloss finish or Matt Finish is required.

RECOMMENDED USE

- Suitable for all types of wooden surfaces such as furniture, case works.
- Also suitable for industrial lacquer application where fast drying is the requirement.

PHYSICAL CONSTANTS

PACK SIZE

0.91 LTR ,3.64 LTR & 14.56 LTR (Pack)

FINISH

High Gloss And Matt Finish

COLOR

CLEAR

THEORETICAL SPREADING RATE

120-140SQ.M/LITER/COT (25±5-MICRONS)
DEPENDING ON NUMBER OF FACTORS

DRYING TIME

15 MIN AT 35 ȢC. RECOATING TIME 1 HOUR.

FLASH POINT

40 FȢ

Physical constants are subject to normal manufacturing tolerances

APPLICATION DETAIL

APPLICATION METHOD

THINNER

THINNING

No. of Coats

TYPICAL PAINTING SYSTEM

CLEANING

TYPICAL SURFACES

NEW SURFACES

PREVIOUSLY PAINTED SURFACES

By Spray

Wood Master Thinner

With 1 part of Lacquer, use 1.5 to 2.0 part of wood master thinner by volume.

2 to 3 Coats.

On Wood

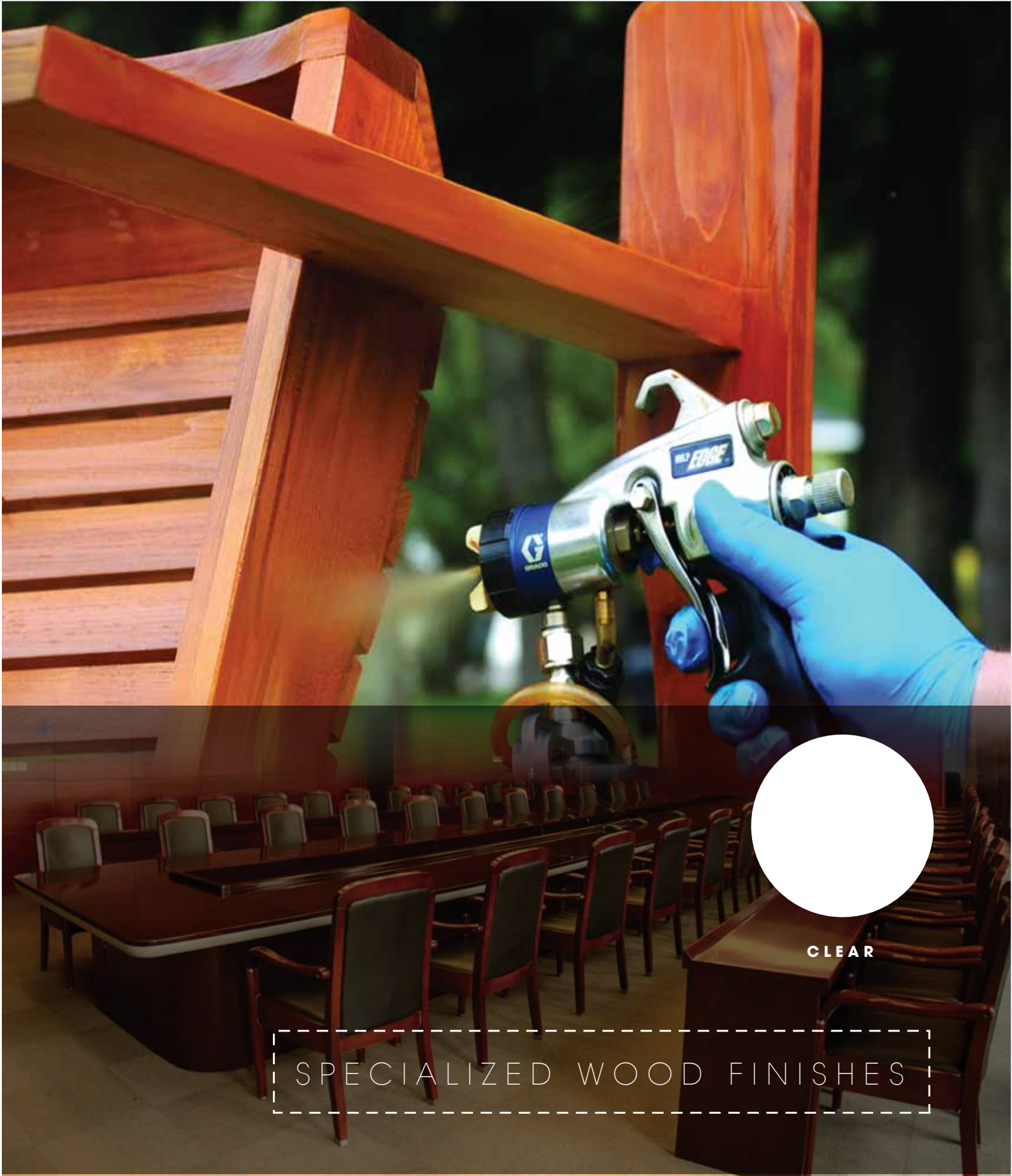
Clean all equipment with wood Master thinner.

Surface must be clean, dry and free from efflorescent salts. Seal with Wood Master, WOOD MASTER SEALER, (A protective nitrocellulose based quick drying sanding sealer. It provides smooth and excellent base to top coat application).

Thoroughly clean surface Remove all defective or poorly adhering material by rubbing down using a suitable abra-sive paper and dust off. Seal with Wood Master Sealer



DUST OFF



CLEAR

SPECIALIZED WOOD FINISHES



SAFETY AND ENVIRONMENT NOTES

FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination. Get medical attention immediately!

INHALATION

Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place.

INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to Hospital or eye specialist.

FIRST-AID MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Beware, risk of formation of toxic and corrosive gases.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately.

PERSONAL PRECAUTIONS

CLOTHING

Wear protective clothing. Beware of slippery floors and surfaces.

HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

STORAGE PRECAUTIONS

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

STORAGE CLASS

Flammable liquid storage.

The information contained herein is based on data believed to be reliable. It is true & accurate to the best of our knowledge, but is not intended to be all inclusive. Users should consider this information as a supplement to other information gathered by them & must make their own determination of suitability & completeness to assure proper use & disposal.



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