BERGER Protecton PROTECTIVE COATINGS

Epilux 610 Primer

USES

Epilux 610 Primer possesses a history of success in various fertilizer, refineries, chemical and other plants applied in diverse areas – tanks, equipment, pipelines, structural steel, etc.

SCOPE

A two pack anticorrosive epoxy primer for use on steel surfaces. This primer is ideally designed for offering superior performance in highly corrosive chemical and coastal environments. It can be overcoated with epoxy, chlororubber and polyurethene top coats.

PRODUCT DATA

Type : Two Pack, cured with Polyamide

Composition : Catalysed epoxy resin/Zinc Phosphate

Mixing Ratio : Base : Catalyst – 3 : 1 by volume

Pot Life : 5–6 hours

Application : Brush, Airless or Conventional Spray

Recommended DFT : 25–35 microns per coat

Corresponding WFT : 57–80 microns per coat

Theoretical Spreading Rate : 12.6–17.6 Sq. Mtr./Ltr./Coat

Drying Time :

TOUCH	: 1 hours
HANDLE	: 4 hours
HARD	: Overnight

Curing Time : 6–7 days

Overcoating Interval :

MIN	: Overnight
MAX	: Indefinite

Flash Point : Above 22° C

Colour : Red Oxide & Grey

Finish : Matt

Packing : Red Oxide - 20 Ltrs. & 4 Ltrs.
Grey - 20 Ltrs.

Thinner/Cleaner : Thinner 844

Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Good	Good
Alkalis	Good	Good
Solvents	Very Good	Very Good
Salt	Very Good	Very Good
Water	Very Good	Very Good

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Very good with suitable top coat

Flexibility : Good

Abrasion Resistance : Fair

DATA SHEET No. : 040
Issue Date : Mar. 04

BERGER Protecton PROTECTIVE COATINGS

Epilux 610 Primer

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35–40 microns.

The surface should be clean and dry before application of Epilux 610 Primer.

APPLICATION

Stir the base thoroughly and then mix three parts of base and one part of catalyst by volume to uniform consistency. Allow the mixture to mature for 30 minutes and stir again before application and occasionally during use.

Brush : Apply without thinning.

Conventional Spray : Add upto 15% Thinner 844 depending on conditions. Use any standard equipment at an atomising pressure of 3.5 – 4.9 Kg/cm^2.

Airless Spray : Apply preferably without thinning. However, upto 5% Thinner 844 may be added if absolutely essential depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38–0.43 mm. Tip pressure 110–160 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Epilux 610 Primer	Epilux 4 HB/155 HB MIO	Epilux 4 CR Enamel	Epilux 4 CR Enamel
-do-	-do-	Epilux 155 HB or Epilux 4 HB or Bergerthane	Epilux 155 HB or Epilux 4 HB or Bergerthane	
-do-	-do-	Epilux 5 CTE or Epilux 555 CTE HB	Epilux 5 CTE or Epilux 555 CTE HB	
-do-	-do-	Epilux 610 Primer	Epilux 78 HBTL	Epilux 78 HBTL
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems.			

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and Spray equipment should be cleaned with Thinner 844 otherwise equipment is likely to be damaged.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DATA SHEET No. : 040
Issue Date : Mar. 04

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BERGER Protecton PROTECTIVE COATINGS

Epilux 610 Primer

USES

Epilux 610 Primer possesses a history of success in various fertilizer, refineries, chemical and other plants applied in diverse areas – tanks, equipment, pipelines, structural steel, etc.

SCOPE

A two pack anticorrosive epoxy primer for use on steel surfaces. This primer is ideally designed for offering superior performance in highly corrosive chemical and coastal environments. It can be overcoated with epoxy, chlororubber and polyurethene top coats.

PRODUCT DATA

Type : Two Pack, cured with Polyamide

Composition : Catalysed epoxy resin/Zinc Phosphate

Mixing Ratio : Base : Catalyst – 3 : 1 by volume

Pot Life : 5–6 hours

Application : Brush, Airless or Conventional Spray

Recommended DFT : 25–35 microns per coat

Corresponding WFT : 57–80 microns per coat

Theoretical Spreading Rate : 12.6–17.6 Sq. Mtr./Ltr./Coat

Drying Time :

TOUCH	: 1 hours
HANDLE	: 4 hours
HARD	: Overnight

Curing Time : 6–7 days

Overcoating Interval :

MIN	: Overnight
MAX	: Indefinite

Flash Point : Above 22° C

Colour : Red Oxide & Grey

Finish : Matt

Packing : Red Oxide - 20 Ltrs. & 4 Ltrs.
Grey - 20 Ltrs.

Thinner/Cleaner : Thinner 844

Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Good	Good
Alkalis	Good	Good
Solvents	Very Good	Very Good
Salt	Very Good	Very Good
Water	Very Good	Very Good

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Very good with suitable top coat

Flexibility : Good

Abrasion Resistance : Fair

DATA SHEET No. : 040
Issue Date : Mar. 04

BERGER Protecton PROTECTIVE COATINGS

Epilux 610 Primer

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35–40 microns.

The surface should be clean and dry before application of Epilux 610 Primer.

APPLICATION

Stir the base thoroughly and then mix three parts of base and one part of catalyst by volume to uniform consistency. Allow the mixture to mature for 30 minutes and stir again before application and occasionally during use.

Brush : Apply without thinning.

Conventional Spray : Add upto 15% Thinner 844 depending on conditions. Use any standard equipment at an atomising pressure of 3.5 – 4.9 Kg/cm^2.

Airless Spray : Apply preferably without thinning. However, upto 5% Thinner 844 may be added if absolutely essential depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38–0.43 mm. Tip pressure 110–160 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Epilux 610 Primer	Epilux 4 HB/155 HB MIO	Epilux 4 CR Enamel	Epilux 4 CR Enamel
-do-	-do-	Epilux 155 HB or Epilux 4 HB or Bergerthane	Epilux 155 HB or Epilux 4 HB or Bergerthane	
-do-	-do-	Epilux 5 CTE or Epilux 555 CTE HB	Epilux 5 CTE or Epilux 555 CTE HB	
-do-	-do-	Epilux 610 Primer	Epilux 78 HBTL	Epilux 78 HBTL
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems.			

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and Spray equipment should be cleaned with Thinner 844 otherwise equipment is likely to be damaged.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DATA SHEET No. : 040
Issue Date : Mar. 04

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BERGER Protecton PROTECTIVE COATINGS

Bergerthane IPN Finish

USES

A two pack aliphatic polyurethane for mild steel structures for good UV and weathering resistance. Recommended as a finish coat for application over a suitable primer on concrete or steel structures as used in railway / Highway bridges & flyovers.

SCOPE

A premium quality quick drying two pack polyurethane finish with good weathering properties. The product is recommended for application on well prepared and primed surfaces.

Product manuafcatured as per License of CSIR-CBRI Technology for IPN Coatings

PRODUCT DATA

Type : Two pack aliphatic polyurethane

Composition : Aliphatic Isocyanatesuitably pigmented

Volume Solids: 42± 2%

Mixing Ratio : Base: Catalyst: 1:1 by volume

Pot Life: 1 hour at ambient temp

Application : Air / Airless Spray; Brush

Recommended DFT : 40 - 50 µ per coat

Corresponding WFT: 95 - 115 µ per coat

Theoretical Spreading Rate: 8.4 to 10.5 m^2/Ltr /coat

Drying Time :

TOUCH	: 1 hour
HANDLE	: 10 hours
HARD	: 16 hours

Curing Time: 72 hours

Flash Point : Above 28° C

Colour : Assorted

Finish: Semi-glossy/ Glossy

Packing: 20 ltrs

Thinner/Cleaner : Thinner 825

Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Good	Good
Alkalis	Good	Good
Solvent	Very Good	Very Good
Salt	Excellent	Excellent
Water	Excellent	Excellent

Weatherability	Good
Flexibility	Good
Adhesion	Good

Temperature Resistance :

Continuous	: 93°C
Intermittent	: 120°C

DATA SHEET No. : 503
Issue Date : Nov 2017

BERGER Protecton PROTECTIVE COATINGS

Bergerthane IPN Finish

SURFACE PREPARATION

Remove grease, oil and other contaminants preferably by Solvent degreasing and cleaning to SSPC SP1 and can be pretreated and phosphated. If pretreatment could not be done, then abrasive blast clean to a minimum SSPC SP-10 for mild steel substrates. For severe corrosive conditions, blast to SSPC SP-5 with a surface profile not exceeding 35 to 45 microns. If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to SSPC SP2/ SP3. Excessive burnishing of steel is to be avoided. Thoroughly dust down all clean surfaces. The surface should be clean and dry before application of appropriate coating

APPLICATION

Stir the base thoroughly and then mix one part of Base and one part of Catalyst by volume to uniform consistency. Allow the mixture to mature for ten minutes, and stir again before and during application.
Brush / Roller: Apply without any thinning.
Airless Spray : Apply preferably without thinning. However, upto 5 - 7% Thinner 825 if absolutely essential depending on the conditions. Use any standard equipment having pump ratio 40:1. Tip size 0.48-0.53 mm.
Tip pressure 140 -165 kg/cm^2

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Concrete	Epilux 9 IPN Coating	Epilux 9 HB Phenolic IPN Coating	Epilux 9 HB Phenolic IPN Coating	--
Concrete	Epilux 9 IPN Coating	Epilux 9 HB Phenolic IPN Coating	Epilux 9 HB Phenolic IPN Coating	Bergerthane IPN Finish
Mild Steel	Epilux 9 IPN Coating	Epilux 9 HB Phenolic IPN Coating	Epilux 9 HB Phenolic IPN Coating	Bergerthane IPN Finish

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10º C or rises above 50º C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and spray equipment should be cleaned with Thinner 842 otherwise equipment is likely to be damaged.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DATA SHEET No.: 503
Issue Date: Nov 2017

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BERGER Protecton PROTECTIVE COATINGS

Ferrotol HR Aluminium Paint

USES

Recommended for use outside storage tanks, pipes, stacks, ducting radiators, boiler fronts, chimneys as well as structural steel, etc.

SCOPE

A two pack high lustre aluminium paint possessing excellent durability and weather resistant properties. The product is designed to withstand a constant working temperature of 250° C and can also be used as a heat reflectant coating.

PRODUCT DATA

Type : Dual Pack – paste and medium supplied separately

Composition : Oleoresinous medium with leafing aluminium

Application : Brush or Conventional Spray

Recommended DFT : 15–20 microns per coat

Theoretical Spreading Rate : 19.0–25.3 Sq. Mtr./Ltr.

Drying Time :

TOUCH : 4 hours
HANDLE : 6–8 hours
HARD : Overnight

Overcoating Interval :

MIN : Overnight

Flash Point : Above 30° C

Colour : Aluminium

Packing : 20 Ltrs. & 4 Ltrs.

Thinner/Cleaner : Thinner 800

Finish : Bright Metallic

Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH AND SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	N/R	Poor
Alkalis	N/R	Poor
Solvents	N/R	Poor
Salt	Good	Good
Water	Good	Very Good

Temperature Resistance :

Continuous : 250° C Max.

Weatherability : Excellent

Flexibility : Excellent

Abrasion Resistance : Moderate

DATA SHEET No. : 015
Issue Date : Mar. 04

BERGER Protecton PROTECTIVE COATINGS

Ferrotol HR Aluminium Paint

SURFACE PREPARATION

Make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces.

The surface should be clean and dry before application of Ferrotol HR Aluminium Paint.

APPLICATION

Mix the paste into medium and stir the contents thoroughly before and occasionally during use.

Brush : Apply, without thinning, to the recommended thickness.

Conventional Spray : Add upto 10% Thinner 800. Use any suitable standard equipment at an atomising pressure of 2.8–3.5 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel (up to 100° C)	BP ROZC Primer or Luxol Z/C Primer	BP ROZC Primer or Luxol Z/C Primer	Ferrotol HR Aluminium	Ferrotol HR Aluminium
-do- (above 100° C)	Ferrotol HR Aluminium	Ferrotol HR Aluminium	-do-	
-do- (above 100° C)	Zinc Anode 304 MZ	-do-	-do-	

Notes :

1. Application must be carried out on cold surface only. After the final coat has dried completely, the painted surface may be gradually heated.
2. The mixed paint must be used off within 48 hours for obtaining bright lustrous finish.
3. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DATA SHEET No. : 015
Issue Date : Mar. 04

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BERGER Protecton PROTECTIVE COATINGS

BR Thermolite Aluminium

USES

A direct to metal coating, recommended for use on structural steel, pipelines, exhaust pipes, smoke stack etc. for operational temperatures up to 600°C dry heat . Can also be used in the case of maintenance as a CUI coating for temperatures up to 400°C. Specially designed for application over hot substrates at operating temperatures up to 120

SCOPE

An inorganic co-polymer with aluminium flakes meant for protection of steel surfaces subjected to wet and dry heat cycles as well in cryogenic conditions up to -196C. The coating is unique as it serves the dual purpose of heat and corrosion resistance and is suitable for application in both new construction and maintenance stages.

PRODUCT DATA

Type : Two pack system suitably cured

Composition : Inorganic co-polymer coating with aluminium pigments.

Volume Solids: 60 ± 2%

Mixing Ratio : Base : Catalyst : 19: 1 by volume.

Pot Life : 2 hours at 27±2°C

Application : Brush or Spray

Recommended DFT : 75 to 125 µ /coat

Recommended WFT: 125 to 208 µ /coat

Theoretical Spreading Rate : 4.8 to 8.0 m^2 / ltr

Drying Time :

TOUCH	: 30 - 60 min
HANDLE	: 10 - 12 hours
HARD	: 18 - 24 hours

Overcoating Interval : :18 - 24 hours

Flash Point : Above 25°C

Colour : Aluminum

Finish : Egg shell metallic

Packing : 20 ltrs

Thinner/Cleaner : Thinner 844

Storage Life : Upto six months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Solvent	Good	Good
Salt	Good	Good
Water	Good	Good

Weatherability: Excellent under cured condition

Flexibility : Good

Abrasion Resistance : Moderate

Temperature Resistance : 400 - 600 °C dry heat up to -196°C cryogenic conditions

DATA SHEET No. : 321
ISSUE DATE: Apr 2012

BERGER Protecton PROTECTIVE COATINGS

Epilux 555 Coal Tar Epoxy High Build

USES
Recommended for use on structural steel, pipelines and equipment for fertilizers, refineries, chemical and coastal installations. An ideal coating for application on barrage gates and hydel penstocks.

SCOPE
A high solid coal tar epoxy coating with outstanding performance in highly saline, chemical and most severe corrosive environments. The product has superb water resistance properties and is also unaffected by alkalinity or sulphates in soil water and is suitable for use in conjunction with cathodic protection.

PRODUCT DATA

Type : Two pack, cured with Amine Adduct

Composition : Epoxy coal tar suitably pigmented

Mixing Ratio : Base : Catalyst – 55 : 45 by volume

Pot Life : 4–6 hours

Application : Brush or Airless Spray

Recommended DFT : 125–200 microns per coat

Corresponding WFT : 160–256 microns per coat

Theoretical Spreading Rate : 3.9–6.2 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: Overnight
HANDLE	: 24 hours
HARD	: 48 hours

Curing Time : 6–7 days

Overcoating Interval :

MIN	: 24 hours
MAX	: 5 days

Flash Point : Above 22° C

Colour : Black

Finish : Low Sheen

Packing : 35 Ltrs.

Thinner/Cleaner : Thinner 844

Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Very Good	Very Good
Alkalis	Very Good	Very Good
Solvents	Good	Good
Salt	Excellent	Excellent
Water	Excellent	Excellent

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Good (Chalks)

Flexibility : Good

Abrasion Resistance : Very Good

DATA SHEET No. : 062/01
Issue Date : Mar. 04

BERGER Protecton PROTECTIVE COATINGS

Epilux 555 Coal Tar Epoxy High Build

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 65 microns.

If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. Best results can be achieved if the manually cleaned surface is primed with Protectomastic - Self Priming Surface Tolerant Coating. The surface should be clean and dry before application of appropriate primer coat.

Concrete : NEW CONCRETE : Ensure that the concrete is cured for a minimum of three months. The surface is to be made rough and free from laitance and other contaminants by sand sweeping. OLD CONCRETE : Remove all salt deposits from the surface by water jet washing. Light sand blast the surface to remove all loosely bound coatings and roughening up of firmly adhering coatings to ensure anchorage with recommeded system. Ensure all dust/other particles are fully removed by suction or air blast and the surface is fully clean and dry before application of paint. In non-critical areas where blasting is not possible, water jet washing and hard wire brushing are minimum requisites.

APPLICATION

Stir the base and catalyst thoroughly and then mix the components in recommended proportion to a homogeneous consistency. Allow the mixture to mature for 30 minutes and stir again before application and occasionally during use.

Brush : Apply preferably without thinning. However, if required during application, add upto 5% Thinner 844.

Airless Spray : Apply preferably without thinning. However, upto 5% Thinner 844 may be added if absolutely essential depending on conditions. Use any standard equipment having pump ratio 40 : 1. Tip size 0.48–0.68 mm. Tip pressure 110–160 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat
Steel	Zinc Anode 304 or Epilux 4 Z/R Primer	Epilux 555 CTE HB	Epilux 555 CTE HB
-do-	Epilux 610 or Epilux 13 HB Primer	-do-	-do-
-do-	Protectomastic	-do-	-do-
Concrete or Plastered Surfaces	Epilux 4 Clear Lacquer	-do-	-do-
Galvanised Iron or Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding the primer coats.		

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Bruches and spray equipment should be cleaned with Thinner 844 otherwise equipment is likely to be damaged.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

DATA SHEET No. : 062/01
Issue Date : Mar. 04

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GUIDELINE ROAD MARKING 164 PAINT

USES

Recommended for use on Concrete and Bitumen coated surface or Highways for marking traffic . monitoring signals.

SCOPE

Guideline is specially formulated for applying on concrete or Butimen covered concrete as marking paint visible from a larg distance. The product can also withstand abrasion and endure environmental tortures.This product will satisfy IS - 164/1981 specification requirment.

PRODUCT DATA	
Type :	Single Pack
Composition :	Special Acrylic medium suitably pigmented
Application : Brush or roller	
Recommended DFT :	20-25 microns per coat
Thining Ratio: Paint : Water - 2 : 1 by volume	
Theoretical Spreading Rate : 10 - 11 Sq. Mtr./Ltr.	
Drying Time :	
Surface dry	within 30 mins at 65% Relative Humidity.
Hard dry	1hour
over coat:	4 to 6 hrs minimum
No. of coats :	Two
Colour :	White, Golden Yellow and Black
Finish :	Smooth & Matt
Packing : 20 Ltrs.	
Flash point:	Not Applicable
Thinner/Cleaner:	Tap water
Storage Life : Upto twelve months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.	

DATA SHEET No. : 152
Issue Date : June'04