EPILOX HS

SOLVENT FREE EPOXY COATING SYSTEM

DESCRIPTION:

RLA EPILOX HS is high performance, 100% solids, three component, solvent free industrial epoxy coating system. Epilox HS is designed for floor and wall applications where durability, chemical resistance and abrasion resistance are essential

FEATURES AND BENEFITS:

- 100% Solids Epoxy
- Non-flammable, negligible odour and toxicity
- Low VOC
- Resists mildew, mould and bacterial growth
- Withstands steam and chemical cleaning
- Abrasion Resistant
- Slip Resistance to AS/NZ 4586-1999
- Able to achieve R10-R13 depending on anti-slip grit used
- Can be used as a wall, ceiling and floor surface coating
- Aged coating may be recoated with minimal preparation

RECOMMENDED USE:

- Very hard wearing, durable and chemically resistant finish coating for industrial, commercial and hygiene areas subjected to rigorous cleaning or high wear
- As an abrasion and chemical resistant floor coating with or without non-skid properties
- As a mould and bacteria resistant hard finish for washrooms, shower cubicles, canteen areas and food preparation areas
- As a high performance new construction or maintenance coating in the food and chemical industries including
  - Hospitals
  - Schools
  - Pharmaceutical industries
  - Kitchens
  - Abattoirs
  - Dairies
  - Canneries
  - Wineries
  - Warehouse floors
  - Aviation hangers
  - Factory floors
  - Showroom floors

SUBSTRATES:

- Concrete
- Masonry
- Concrete block
- Compressed fibre cement
- Stone

SURFACE PREPARATION:

- All surfaces are to be clean, sound, smooth, dry, and free from loose material, dirt, dust, oil, grease, laitance, wax residues, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and all contaminating materials that could compromise the adhesion of the overlaid coating system
- Structurally unsound layers and surface contaminants must be mechanically removed
- Masonry surfaces to be pointed flush, and all surface defects including voids, holes, damaged and pitted sections, static cracks and heavy undulations to be filled, repaired, made sound and level. Refer to the RLA range of surface preparation aids, levelling and repair compounds for suitable options
- All surfaces and substrates must be fit for purpose, constructed and installed to manufacturer's recommendations and relevant building standards in force at time of application
- Non porous mineral surfaces including steel-trowelled, burnished and dense concrete must be mechanically abraded to roughen surface and provide a suitable key.
- Concrete to be allowed to cure for at least 28 days prior to the coating application unless **RLA MOISTURE SEAL** is used as a vapor barrier primer. Apply as per TDS and allow to dry for 24 hours before application of the Epilox HS coating system

PRIMING:

Epilox HS does not normally require priming prior to application; however, if the substrate is overly porous, a primer coat of **EPILOX BINDER** must be applied. This should be followed by two consecutive coats of Epilox HS. Refer to ATSM F3191-16 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates.
Refer to **RLA MOISTURE SEAL** for priming green substrates or substrates with elevated moisture levels

MIXING:

- Mixing should be by means of a mechanical forced action mixer with a high shear stirrer/mixing paddle
- Pre-mix each individual components to ensure a homogenous consistency before combining
- Combine the two components together in the ratio 2 parts resin (Part A) to 1 part hardener (Part B) by volume (Mix ratio 2:1)
- Add the appropriate colour pack (if using) and mix thoroughly for a minimum of 5 minutes until homogenous consistency is achieved
- Avoid trapping air during mixing as this may cause pin holing in the coating during application
- Allow the product to stand for approx. 5 mins after mixing as this will assist in accelerating the drying reaction
- Do not mix part kits as this may affect the mix ratio and result in a softer film build and weak coating
- Do not mix large quantities of material than cannot be used within the setting time

Colour pack addition

For a 4.3litre kit add:	1 x 500g colour pot
For a 15litre kit add:	3 x 500g colour pots

APPLICATION:

- Apply Epilox HS with a brush or lamb's wool or mohair roller approximately 8-10mm, ensuring the material is worked into the substrate surface to fill voids and eliminate pin holing.
- Apply an even and consistent first coat to the surface at a coverage of 1litre/4-5m^2 achieving a minimum wet film thickness of 200-250microns
- Once the first coat is dry, apply a second coat at right angles to the first coat to the surface at a coverage of 1litre/4-5m^2 achieving a achieving a minimum wet film thickness of 200-250 microns
- Epilox HS is to be applied in a minimum of 2 coats to achieve a total dry film thickness (DFT) of 400-500microns
- RLA recommends regular testing of the depth of the coat with a wet film thickness gauge at regular intervals during installation
- Always provide adequate ventilation during the curing cycle

Non slip/skid resistant finishes

- To obtain a textured, skid resistant floor coating surface, it is recommended that **EPILOX F4 FILLERS** is broadcast on the first coat of Epilox HS whilst still wet
- Allow this first coat to dry for a minimum of six (6) hours) or when tack free. Remove excess grit by vacuuming
- Apply a second coat of Epilox HS over the first coat ensuring the Epilox Grit is fully encapsulated
- 1 x 20kg bag of Epilox F4 Fillers will cover approximately 40m^2 when used for skid resistant flooring applications

COVERAGE

	Coverage	Dry film	Total
1st coat	1litre/ 4-5m^2	200-250microns	200-250microns
2nd coat	1litre/ 4-5m^2	200-250microns	400-500microns

Coverage per 4.3litre kit: 10m^2

Coverage per 15litre kit: 37m^2

Note: Coverage is approximate and dependent upon surface condition and will vary accordingly as uneven and porous surfaces will require greater coverage to achieve the specified film thickness.

COLD SUBSTRATES & COOL CLIMATE CONDITIONS:

- Epilox HS cure rates will be dramatically reduced when substrate surface or ambient temperature is below 10˚C
- If Epilox HS is applied in cold or cooler climatic conditions, substrate temperatures can produce amine blush, resulting in an oily residue and/ or areas of uncured tacky film or discoloration (usually off white or yellow)
- If amine blush or any other form of surface contamination or discoloration appears on the coating, Epilox HS should be allowed to cure and all contamination thoroughly removed prior to the application of any further coating. Failure to perform this procedure will result in delamination between coatings
- Allowing the product to stand for approx. 5 mins after mixing will assist in accelerating the drying reaction
- Store the Epilox HS in a 20˚C environment 24 hours prior to use
- In cold climates, if possible, warm the substrate surface area where Epilox HS is to be applied by air blower or use a blower after application

DRY TIMES:

Pot life	**45 minutes (4.3litre kit)**
Re-coat	**8-24 hours**
Full Cure	**7 days**
Foot traffic	**24 hours**
Vehicular traffic	**72 hours**
Applications subject to chemical exposure or abrasion	**7 days**

Note: Figures based on normal ambient temperatures of 23°C and 50% RH. Longer drying times will be required in cooler temperatures and high humidity

CLEAN UP:

- Wash all equipment in **EPILOX THINNERS** immediately on completion of application and mixing

PACKAGING:

Epilox HS Neutral - 4.3litre kits
Epilox HS Neutral - 15litre kits
Epilox HS Koala Grey - 15litre kits
Epilox Colour pk Mid Grey – 500g
Epilox Colour pk Koala Grey – 500g

STORAGE:

- 12 months when stored in original unopened packaging
- Best stored at room temperature between 10°C and 30°C
- To be stored in a dry area off the ground
- Do not store in direct sunlight

PRECAUTIONS:

- Do not apply if the surface temperature is below 10˚C or near 10˚C and falling or above 35˚C or above 85% relative humidity
- In enclosed areas ventilation should be provided
- Do not dilute with solvents or water
- Discard any material which has exceeded the pot life or working time of the product
- Do not apply to exterior applications exposed to direct sunlight.
- Coating will discolour to form a light yellow film in the presence of UV light
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface
- Exposure to water prior to full cure may result in a slight discolouration or white stain on surface. This may easily be removed by cleaning the surface with a suitable cleaner
- Epilox HS should not be applied to any surface subject to hydrostatic pressure or back water pressure unless first treated/primed with **RLA MOISTURE SEAL**
- For detailed advice on applications not mentioned in this TDS, contact the RLA Technical Department

HEALTH & SAFETY

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data

TECHNICAL DATA:	
Appearance	Free flowing liquid
Finish	Gloss
Colours	Neutral Koala Grey Mid grey (colour pack)
Mix ratio	2:1 by volume (Resin/Hardener)
Volume solids	100%
Weight solids	100%
Specific Gravity	Approx 1.05 (clear) Approx 1.15 (coloured)
Viscosity	1000cps

CHEMICAL RESISTANCE * (resistant to spillages)	
Citric acid 100%	Excellent
Acetic acid:	Excellent
Sodium Hydroxide	Excellent
Diesel fuel/petrol	Excellent
Sugar solutions	Very good
Tartaric acid	Very good
Hydrocarbons	Very good
Phosphoric acid	Very good
Lactic acid	Very good
Lime Milk	Very good

Important:
Surface staining may result in exposure to extended ponding of aggressive chemicals. All spills should be quickly removed and surface washed thoroughly. Over exposure may results in surface degradation

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.
We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.
RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.
Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.
Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.
The consumer is responsible for any expenses incurred in making a claim.
A claim form can be requested by:

PHONE: 1800 242 931
EMAIL: info@rlapolymers.com.au
MAIL: 215 Colchester Road Kilsyth Victoria 3137 (Attention Customer Service)
WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.
Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

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