

Application Instructions

Coating performance is proportional to the degree of surface preparation. Surface must be clean and dry (<6% moisture), undamaged and free of all contaminants prior to coating.

Prepare damaged areas to original surface preparation specifications, feathering edges of any damaged but intact coating system.

For optimum application temperature of the material should be between 10°C and 20°C prior to mix and application.

Gradually add total contents of Cure tin into Resin tin and mix thoroughly to a uniform consistency.

Apply one thin coat by brush or small roller without diluting. See below for spray instructions.

(See Technical Data sheet for spreading rates)

Use a cross-lapping method of application to avoid misses and ensure corners and edges are covered.

If the surface is porous do not attempt to cover with one application. Apply a thin coat, leave for 3 – 4 hours to partially reduce porosity, and then apply a second light and even coat.

Suggested preparation of substrates

Required treatment

Plaster	Surface must be dry
Aged coatings	All surfaces must be clean & dry, tightly bonded and free of loose flakes (existing paint) and corrosion products
Brick / stone	All surfaces must be clean and dry and free of loose material
Timber etc	Ensure surfaces are clean and dry
Stainless steel	Abrade, sweep blast or high pressure water blast to provide profile
Aluminium	Degrease followed by abrading, blasting or chemical conversion treatment
Galvanizing	Degrease followed by abrading or chemical conversion treatment
Concrete	New concrete - Acid etch or abrade to remove laitance <i>Aged concrete must be thoroughly cleaned.</i>

SPRAY APPLICATION METHOD

Airless Spray:

Warm material before use to 20°C and pass mixed material through a 400 mesh filter.
Set air pressure gauge at 15psi
Set Pump pressure at 70psi
Use a 6/11 tip
Thin material with 5% of 900 thinner
Spray two quick passes – one horizontal, one vertical.

Pressure pot / conventional spray:

Warm material before use to 20°C and pass material through a 400 mesh filter.
Set Compressor pressure gauge at 1.5 bar
Set Pot Gauge at 1 bar
Use the dial of the spray gun to regulate the volume of air into the gun
The lower dial on the gun controls volume of fluid. Turning in reduces the amount of fluid
The upper dial on the spray gun alters the fan width.
Spray two quick passes – one horizontal, one vertical. Turn the spray tip to change vertical to horizontal spray pattern.

DATA SHEET

Product

easy-on[™] protective wall coating

Description

A clear protective coating that can be applied to all surfaces to provide durability to existing coatings, protection of bare substrates and exceptional graffiti resistance.

Benefits

- Hard wearing finish cleans 100's of times
- Protects painted walls for up to 20 years
- Simple application
- Resists graffiti
- Easily cleaned – Spray paints, permanent markers, felt tip, ball-point pen etc just wipe off
- Single coat = low applied cost
- Can be applied over existing base coats and decorative finishes
- Resistant to damage from repetitive cleaning operations
- Low VOC – safe and virtually odourless
- Non flammable
- Class 'O' fire rating
- Does not contain Isocyanates
- Graffiti removed with safe removers and water
- Cost effective
- Resists mould and fungi
- Does not support growth of MRSA, Salmonella, Listeria, E Coli etc.

Application

- Coating is used UNDILUTED
- Spray, brush or roller
- Ensure total coverage of all areas to be protected
- See separate detailed Application Instructions.

Application Equipment

Brush, roller or spray (Conventional or Airless)

Health & Safety

See separate Health & Safety Data / MSDS Sheet

HEALTH & SAFETY DATA / MSDS easy-on™ coating – resin

1. Identification

Product name easy-on™ durability coating (Resin component) :
Supplier Urban Hygiene Ltd, Sky Business Park, Robin Hood Airport, Doncaster,
DN9 3GA
Telephone 01302 623193
Fax: 01302 623167
Emergency phone : 07984 909160

2. Composition

Chemical name	CAS no.	%	Classification	R Phrase
Silicone resin		60-100	Xn;	R22
Hydrogenated Epoxy Resin	30583-72-3	10-30	N;	R43 R51/53
Hydroxyphenyl-benzotriazole derivatives		1-5	Xn;	R48/22 R43 R51/53

See Section 16 for full text of R Phrases above. Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The unmixed preparation is classified as dangerous according to Directive 1999/45/EC and its amendments. The preparation may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

Physical/chemical Hazards : Not applicable
Human health hazards : Harmful if swallowed. May cause sensitization by skin contact
Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-Aid measures

Ingestion If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.
Eyes Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
Skin contact Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
First-Aid measures Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing Media : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

Spill Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulation (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Storage Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Store in accordance with local regulations. Observe label precautions. Store in a cool, well ventilated area away from incompatible materials and ignition sources. Keep away from: OXIDIZING AGENTS, strong alkalis, strong acids. No smoking. Prevent unauthorised access. Containers must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.
Handling Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits

8. Exposure controls/personal protection

Engineering measures Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory system If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Skin and body Personal protective equipment Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Hands For prolonged or repeated handling, use gloves: nitrile. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eyes Use safety eyewear designed to protect against splash of liquids.

Ingredient Name	Occupational Exposure Limits
Silicone resin	Not available.
Hydrogenated Epoxy Resin	Not available.
Hydroxyphenyl-benzotriazole derivatives	Not available.

Environmental exposure control Do not allow to enter drains or watercourses.

9. Physical and chemical properties

Physical state	Liquid
Vapour density	>1 (Air = 1)
Solubility	Insoluble in cold water, hot water.
Colour	Clear
Flash point	Closed cup: 97°C (206.6°F)
Explosion Limits	(Setflash.) LOWER: 2.3% UPPER: 13.7%
Specific gravity	1.138 g/cm ³ (25°C / 77°F) :

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). Hazardous Decomposition Products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Keep away from the following materials in order to avoid strong exothermic reactions: OXIDIZING AGENTS, strong alkalis, strong acids.

11. Toxicological information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See Sections 2 and 15 for details. See Chapters 2 and 15 for details. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

12. Ecological information

There are no data available on the preparation itself. Do not allow to enter drains or watercourses. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations.

14. Transport information
Epoxy compound ADR/RID Class 8

15. Regulatory information



Indication of Danger Harmful :

Safety Phrases S23 - Do not breathe gas/fumes/vapour/spray.
S24 - Avoid contact with skin.
S37 - Wear suitable gloves.
S51 - Use only in well-ventilated areas.

Risk Phrases R22 - Harmful if swallowed.
R43 - May cause sensitization by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains: epoxy constituents. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet. The product is labelled as follows, in accordance with local regulations: Harmful Hydrogenated Epoxy Resin
Silicone resin
Hydroxyphenyl-benzotriazole derivatives

16. Other information

Date of issue 05/06/2006.

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.

HEALTH & SAFETY DATA / MSDS

easy-on™ coating – cure

1. Identification

Product name easy-on durability coating (Cure component) ;
Supplier Urban Hygiene Ltd, Sky Business Park, Robin Hood Airport, Doncaster,
DN9 3GA
Telephone 01302 623193
Fax: 01302 623167
Emergency phone : 07984 909160

2. Composition

Chemical name	CAS no.	%	Classification	R Phrase
3-Aminopropyltriethoxysilane	919-03-2	60-100	Xn;C	R22, R34
Organosilane Ester		10-30	Xi;	R36/38
Organotin		5-30	Xn;	R22

See Section 16 for full text of R Phrases above. Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments. The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

Physical/chemical Hazards : Corrosive
Human health hazards : Harmful if swallowed. May cause sensitization by skin contact
Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-Aid measures

Ingestion If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. **Do not induce vomiting.**

Eyes Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention

Skin contact Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

First-Aid measures Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing Media : Recommended: water spray, fog or foam
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke and may release hazardous gasses. Fire fighters should wear positive pressure self contained breathing apparatus. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

Spill Flammable liquid. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulation (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Storage Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Store in accordance with local regulations. Observe label precautions. Store in a cool, well ventilated area away from incompatible materials and ignition sources. Keep away from: OXIDIZING AGENTS, strong alkalis, strong acids. No smoking. Prevent unauthorised access.

Containers must be carefully resealed and kept upright to prevent leakage. Do not empty into drains. **Handling** Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits

8. Exposure controls/personal protection

Engineering measures Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory system If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

When product is sprayed use OEL's respirable particles 5mg/m3. Total inhalable particulates 10mg/m3

9. Physical and chemical properties

Vapour density >1 (Air = 1) ;
Solubility Liquid. Insoluble in cold water, hot water.
Flash point Closed cup: 96°C (204.8°F).
Explosion Limits (Setaflash.) LOWER: 3.5% UPPER: 19%
Specific gravity 0.981 g/cm 3 (25°C / 77°F) ;

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).
Hazardous Decomposition Products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Keep away from the following materials in order to avoid strong exothermic reactions: OXIDIZING AGENTS, strong alkalis, strong acids.

11. Toxicological information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details. See Chapters 2 and 15 for details. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

There are no data available on the preparation itself. Do not allow to enter drains or watercourses. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations.

14. Transport information

Corrosive liquid, N.O.S. (Siloxane compound)
ADR/RID Class 8
Road/Railway UN number 1760
Packing group III
Hazard identification number 80

15. Regulatory information



Indication of Danger Corrosive :

Safety Phrases	S23 -	Do not breathe gas/fumes/vapour/spray.
	S26 -	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39 -	Wear suitable protective clothing, gloves and eye/face protection.
	S45 -	In case of accident or feeling unwell, seek medical advice immediately (show the label where Possible).
	S51 -	Use only in well-ventilated areas.
Risk Phrases	R22 -	Harmful if swallowed.
	R34 -	Causes burns

The product is labelled as follows, in accordance with local regulations:

Corrosive 3-Aminopropyltriethoxysilane

16. Other information

Date of issue 05/06/2006.

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.

BENEFITS

- **Resists graffiti and protects coatings**

Stops absorption of graffiti and enhances other
Coating surfaces to provide long term durability

- **Apply to any surface!**

Compatible with clean metals, brick, concrete, tile, mortar,
timber, plaster, etc or as a protection over existing coatings.

- **Best value!**

One coat - easy application - permanent finish.

- **Weathering and UV resistant!**

Up to 22 years protection.

- **Stop using harmful chemical removers!**

Grffiti washes away with safe removal products

- **Tested by Materials Research Institute**

Proven effective against rigorous long term graffiti cleaning. No
other product has passed the MRI test.

Typical uses

As a clear anti graffiti finish or durability coating on virtually
any surface. Produces a permanent, easy clean surface.
Increases the durability of existing coatings and extends the
period required between redecoration. Excellent for high traffic
areas such as corridors and stairwells.

Outstanding Characteristics

The superior hardness and excellent resistance to damage
enables the removal of graffiti without harmful aggressive
cleaner products. easy-on™ is user friendly and compliant
with environmental legislation.

Quality Assurance

The long term experience and certified systems of the
manufacturer guarantee a continuous product quality,
optimum performance and dependable product supply.

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TECHNICAL DATA

Physical data

Colour	Transparent
Finish	Sheen
Substrates	Concrete, tile, mortar, existing coatings, plaster, brick and metals, timber, etc.
Components	2 (resin + cure)
Curing mechanism	Chemical reaction between components
Dry film thickness	25 - 50 microns
Number of coats	1 (usually)
Moisture permeability	35gm/ m ² /24 hours
SG of mixed product	1.10 kg/L
VOC content	<8% weight
Calculated coverage	33 m ² per litre @ 25 microns
Practical coverage	9 - 33 m ²
<small>Dependant upon application losses, surface irregularities, porosity, waste, etc</small>	
Application	By brush, roller, low pressure airless/airmix or conventional spray equipment.
Environmental conditions	Air temperature 5°C to 50°C Surface temperature 5°C to 45°C Material temperature 5°C to 40°C Relative humidity >40%
<small>To prevent condensation during application, surface temperature must be at least 3°C above dew point.</small>	
Pot life*	4 hours at 20°C
Touch dry*	4 hours @ 20°C (@25 microns dft)
Full chemical cure**	7 days
Storage life	12 months in cool, dry place in sealed containers
Equipment Cleaner	Xylene
Inflammable	no
Flash point	Resin > 97°C Cure > 96°C
Packaging	
Resin	3.75 l in 5 litre can
Cure	750ml in 1 litre can

* Pot life and touch dry times depend on temperature and
quantities mixed.

** Do not attempt to clean the coating with any chemical
until it has fully cured (7 days at 20°C)