

# ECOPOXY 310

construction products

## SOLVENT BASED, HIGH BUILD EPOXY FLOOR COATING



**ECOPOXY 310** is a high build two component, solvent based epoxy coating system. It cures to form a tough, smooth semi gloss finish which can be easily cleaned.

**ECOPOXY 310** coating system is available in a range of standard colors. It also has a high degree of abrasion resistance and provides aesthetic finish.

### USES

Decorative and Chemical resistance coating for concrete floor surfaces subject to chemical attack and abrasion as in Chemical plants, Laboratory, Car Park, Dairies, Kitchen, Showrooms, Warehouses, Workshops, Manufacturing plants, Assembly lines.

### FEATURES

- Excellent wear and abrasion resistance.
- Highly chemical resistance.
- Easy to apply by brush, roller or spray.
- Surface can be easily cleaned – Hygienic.
- Low maintenance cost.
- Available in a variety of colors.

### PRODUCT PROPERTIES

Pot Life @ 200C : 4 Hour  
Surface Dry @ 200C : 2 Hour

Full Cure : 7 days @ 200C WFT (1 Coat) : 100 microns

### CHEMICAL RESISTANCE

Alkaline Solutions : Good  
Acidic Solutions : Good  
Hydrochloric acid (30%) : Good  
Fuel : Good  
Gasoline : Good  
Detergents : Good

### SURFACE PREPARATION

New concrete must be 28 days old. The surface to be coated must be clean, dry and free from curing compound and excessive laitance. This can be achieved by shot blasting, grinding etc. Laitance can be removed by solvent and then thoroughly cleaned and washed with clean water. Before actual application of ECOPOXY 310, remove any dust or loose particles by vacuum cleaning and allow the surface to dry completely.

### FOR OLD CONCRETE

The surface to be coated must be free of all dust, coating, curing compound if any, oil, grease and any other foreign particles. Oil and grease can be removed by using Chemical Degreaser. Cleaning of old concrete can be carried by sand blasting, grinding, water-jet blasting. However ensure that the surface to be coated with Ecopoxy 310 is completely dry before applying primer.

### PRIMING

Prime the surface using ECOPOXY PRIMER 310. Apply single coat at a rate of 5 m<sup>2</sup>/ltr depending on the substrate profile. Ensure the primer is uniformly applied. Primer can be applied with a normal roller or stiff brush. Allow to dry for 2 to 4 hours to get a tack free surface. ECOPOXY 310 should be applied on the primed surface within 24 hours.



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## SOLVENT BASED, HIGH BUILD EPOXY FLOOR COATING

### APPLICATION PROCEDURE

Mix part A and part B in a clean container with a slow speed drill fitted with a paddle. Mixing to be carried out for 3 – 5 minutes until a homogeneous mix is obtained. Do not add thinner to the mix. After mixing, pour the coating onto the primed substrate and spread using a squeegee. Alternatively, the mixed product can also be applied with roller or brush. Further coat to achieve more thickness should be applied within 128 hours, once the first coat is dried.



### ANTISLIP APPLICATION

After the application of the base coat, the surface should be dressed with ECOPOXY AGGREGATE. Once the base coat is initial dry (@ 12 hours @ 200 C), the excess aggregate should be cleaned from the surface. The final top coat can be applied after the excess aggregate is removed.

### THEORETICAL COVERAGE

Ecopoxy 310 : 10 sq.m/ltr/coat  
@ 100microns WFT. DFT with two coats :  
140 microns  
Ecopoxy Primer 310 : 5 sq.m/ltr  
(1 coat recommended)

### PACKAGING

20 ltr. kit (ECOPOXY 310)  
5 ltr. kit (ECOPOXY 310 PRIMER)

### SHELF LIFE

One year from date of manufacture if stored in sealed packs below 25° C.

### CLEANING

Tools may be cleaned with Falcon Solvent immediately after use. Once dry, by mechanical means only..

### TECHNICAL SERVICES

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

### HEALTH AND SAFETY

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately.

### GENERAL NOTE

Use this leaflet as a guide for the use of the product concerned. The information given is in accordance with latest technical developments. However, we cannot accept liability / responsibility for any work carried out with our materials, as we have no control over the method of application used or the condition of site involved.

### ISSUE DATE: DECEMBER 2011

This technical specification supercedes all previous data sheets.



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# ECOPOXY 410

construction products

## SOLVENT FREE, EPOXY FLOOR COATING SYSTEM



**ECOPOXY 410** is a high build two component, Solvent free epoxy coating system. It cures to form a tough, chemical and abrasion resistant floor finish. ECOPOXY 410 coating system is available in a range of standard colors.

### USES

It is suited for areas where high resistance is required against chemicals, oils, grease etc. as in Chemical plants, Laboratory, Car Park, Dairies, Workshops, Manufacturing plants etc.

### FEATURES

- Easy to apply by brush, roller or spray.
- Low maintenance cost.
- Excellent wear and abrasion resistance.
- Highly chemical resistance.
- Surface can be easily cleaned – Hygienic.
- Available in a variety of colors.
- Formulated to suite Middle East conditions.

### PRODUCT PROPERTIES

Pot Life @ 200C	:	40-45 minutes
Cure Time	:	1 day @ 200C
Coating Interval	:	3 days @ 200 C
Compressive Strength	:	> 63 N/mm <sup>2</sup>
Flexural Strength	:	> 53 N/mm <sup>2</sup>
Tensile Strength	:	14 N/mm <sup>2</sup>

### CHEMICAL RESISTANCE

Alkaline Solutions	:	Good
Acidic Solutions	:	Good
Hydrochloric acid (50%)q	:	Good
Sulphuric acid (50%)	:	Good
Fuel	:	Good
Gasoline	:	Good
Detergents	:	Good

### SURFACE PREPARATION

New concrete must be 28 days old. The surface to be coated must be clean, dry and free from curing com



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# ECOPOXY 410

construction products

## SOLVENT FREE, EPOXY FLOOR COATING SYSTEM

pound and excessive laitance. This can be achieved by shot blasting, grinding etc. Laitance can be removed by solvent and then thoroughly cleaned and washed with clean water. Before actual application of ECOPOXY 410, remove any dust or loose particles by vacuum cleaning and allow the surface to dry completely.

### FOR OLD CONCRETE

The surface to be coated must be free of all dust, coating, curing compound if any, oil, grease and any other foreign particles. Oil and grease can be removed by using Chemical Degreaser. Cleaning of old concrete can be carried by sand blasting, grinding, water-jet blasting. However ensure that the surface to be coated with Ecopoxy is dry before applying primer. Any damaged or Surface irregularities should be repaired using Ecopoxy Mortar.



### PRIMING

Prime the surface using ECOPOXY 410 PRIMER. Apply single coat at a rate of 7 - 8 m<sup>2</sup>/ltr depending on the substrate profile. Ensure the primer is uniformly applied. Primer can be applied with a

normal roller or stiff brush. Allow to dry for 2 to 4 hours to get a tack free surface. Second coat of primer can be applied if the substrate is excessively porous.

### APPLICATION PROCEDURE

Mix part A and part B in a clean container with a slow speed drill fitted with a paddle. Mixing to be carried out for 3 – 5 minutes until a homogeneous mix is obtained. Do not add solvent thinner to the mix. After mixing, pour the coating onto the primed substrate and spread using a squeegee. Excess coating to be soaked using a short haired nap roller. Minimum of 200 microns thickness should be applied. Further coat to achieve more thickness should be applied within 12-18 hours, once the first coat is dried. Top coat can be applied by medium haired roller, at minimum thickness of 200 microns.

### THEORETICAL COVERAGE

Ecopoxy 410 : 5 sq.m/ltr @ 200 (2 coats recommended) microns.

Ecopoxy 410 Primer : 7-8 sq.m/ltr (1 coat recommended)

### PACKAGING

20 ltr. kit (ECOPOXY 410)

5 ltr. kit (ECOPOXY 410 PRIMER)

### SHELF LIFE

One year from date of manufacture if stored in sealed packs below 25 degrees C.

### CLEANING

Tools may be cleaned with Ecopoxy Thinner immediately after use. Once dry, by mechanicals means only.



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# ECOPOXY 410



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## SOLVENT FREE, EPOXY FLOOR COATING SYSTEM

### TECHNICAL SERVICES

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

### HEALTH AND SAFETY

Use normal safety precautions. Wear rubber hand gloves, safety shoes and safety goggles while using and handling the product. Avoid contact with skin and eyes. In case of accidental contact with eyes, wash with plenty of water and seek medical treatment immediately.

### GENERAL NOTE

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# ECOPOXY 510



construction products

## SOLVENT BASED, HIGH BUILD EPOXY FLOOR COATING



Pot Life @ 200C	:	4 Hour
Surface Dry @ 200C	:	2 Hour
Full Cure	:	7 days @
200C WFT (1 Coat)	:	100 microns

### CHEMICAL RESISTANCE

Alkaline Solutions	:	Good
Acidic Solutions	:	Good
Hydrochloric acid (30%)	:	Good
Fuel	:	Good
Gasoline	:	Good
Detergents	:	Good

**ECOPOXY 510** is a high build two component, solvent based epoxy coating system. It cures to form a tough, smooth semi-gloss finish which can be easily cleaned.

**ECOPOXY 510** coating system is available in a range of standard colors. It also has a high degree of abrasion resistance and provides aesthetic finish.

### USES

Decorative and Chemical resistance coating for concrete floor surfaces subject to chemical attack and abrasion as in Chemical plants, Laboratory, Car Park, Dairies, Kitchen, Showrooms, Warehouses, Workshops, Manufacturing plants, Assembly lines.

### FEATURES

- Excellent wear and abrasion resistance.
- Two coat system
- Highly chemical resistance.
- Easy to apply by brush, roller or spray.
- Surface can be easily cleaned – Hygienic.
- Low maintenance cost.
- Available in a variety of colors.

### PRODUCT PROPERTIES

### SURFACE PREPARATION

New concrete must be 28 days old. The surface to be coated must be clean, dry and free from curing compound and excessive laitance. This can be achieved by shot blasting, grinding etc. Laitance can be removed by solvent and then thoroughly cleaned and washed with clean water. Before actual application of ECO-POXY 510, remove any dust or loose particles by vacuum cleaning and allow the surface to dry completely.

### FOR OLD CONCRETE

The surface to be coated must be free of all dust, coating, curing compound if any, oil, grease and any other foreign particles. Oil and grease can be removed by using Chemical Degreaser. Cleaning of old concrete can be carried by sand blasting, grinding, water-jet blasting. However ensure that the surface to be coated with Ecopoxy 510 is completely dry before applying primer coat.

### PRIMING

Prime the surface using ECOPOXY PRIMER 510. Apply single coat at a rate of 3 m<sup>2</sup>/ltr depending on the substrate profile. Ensure the primer is uniformly applied. Primer can be



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applied with a normal roller, stiff brush or a squeegee. Sprinkle silica sand @ 2 -3 kg / m<sup>2</sup> while the priming coat is still tacky. Allow to dry for 6 to 8 hours to get a tack free surface. ECOPOXY 510 should be applied on



the primed surface within 24 hours.

### APPLICATION PROCEDURE

Mix part A and part B in a clean container with a slow speed drill fitted with a paddle. Mixing to be carried out for 3 – 5 minutes until a homogeneous mix is obtained. Do not add thinner to the mix. After mixing, pour the coating onto the primed substrate and spread using a squeegee. Excess coating to be soaked using a short haired nap roller.

### THEORETICAL COVERAGE

Ecopoxy 510 : 4 sq.m/ltr/coat @ 100 microns WFT

Ecopoxy Primer 510 : 3 sq.m/ltr

### PACKAGING

20 ltr. kit (ECOPOXY 510)

20 ltr. kit (ECOPOXY 510 PRIMER)

### SHELF LIFE

One year from date of manufacture if stored in sealed packs below 25 degrees C.

### CLEANING

Tools may be cleaned with Falcon Solvent immediately after use. Once dry, by mechanical means only..

### TECHNICAL SERVICES

Technical assistance and information is available by calling Falcon Chemicals (L.L.C.) on specific application.

### HEALTH AND SAFE

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### GENERAL NOTE

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# ECOPOXY 610

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## Coal Tar Epoxy Coating for Protecting Concrete & Metal Surfaces



Excellent resistance to saline & soft water.  
Easy to apply by brush, roller or spray.  
Economic & versatile product.

### PRODUCT PROPERTIES

-Pot Life @ 200C	: 4 Hour
-Pot Life @ 400C	: 2 Hour
-Surface Dry @ 200C	: 2 Hour
-Full Cure	: 7 days @ 200C DFT
-(2 Coats)	: 150 microns

### CHEMICAL RESISTANCE

-Sea water	: Good
-Effluent water	: Good
-Sewage water	: Good
-Exhaust & sewage gases	: Good
-Dilute acids & alkalis	: Good
-Vegetable & minerals oils	: Good & fats

ECOPOXY 610 is two components, Solvent free, coal tar epoxy resin system which provides protection to concrete and metal substrates from aggressive environments. Particularly useful in Sewage tanks, pipe lines, effluent treatment tanks & drainages. Application also includes below ground protection to concrete, metal structure & foundations.

ECOPOXY 610 is not recommended for surfaces in contact with potable water and food stuffs.

### USES

- Lining drainage & sewage pipes.
- Effluent treatment tanks, drains & pipelines.
- Concrete bases & foundations.
- Manhole covers & linings.
- Structures exposed to aggressive environments.

### FEATURES

- Excellent general chemical resistance.
- Self priming, No primer necessary.



### SURFACE PREPARATION

New concrete must be at least 28 days old. The surface to be coated must be clean, dry and free from curing compound and excessive laitance. This can be achieved



# ECOPOXY 610



## Coal Tar Epoxy Coating for Protecting Concrete & Metal Surfaces

by shot blasting, grinding etc. Laitance can be removed by solvent and then thoroughly cleaned and washed with clean water. Before actual application of ECOPOXY 610, remove any dust or loose particles by vacuum cleaning and allow the surface to dry completely. Steel surfaces should be shot blasted to a profile of 125 microns. To achieve the maximum adhesion, ECOPOXY 610 to be applied to sound clean & dry surface.

### FOR OLD CONCRETE

The surface to be coated must be free of all dust, coating, curing compound if any, oil, grease and any other foreign particles. Oil and grease can be removed by using chemical degreaser. Cleaning of oil concrete can be carried by sand blasting, grinding, water-jet blasting. However ensure that the surface to be coated with ECOPOXY 610, is completely dry before application.

### APPLICATION PROCEDURE

Contents of each can should be thoroughly stirred for any settlement taken place during storage. Then mix part A and part B in a clean container with a slow

speed ( 200 – 400 rpm) flame proof or air driven drill fitted with a paddle. Mixing to be carried out for 3 – 5 minutes until a homogeneous mix is obtained. Do not add thinner to the mix. After mixing ECOPOXY 610 shall be applied to the dry, prepared substrate, using a standard paint brush, good quality lambs wool roller or spray equipment. It is important to achieve a continuous film to get the maximum protection of coating to the substrate. Apply 2 coats, each of 100 microns WFT. Further coat to achieve more thickness should be applied within 12-18 hours, once the first coat is dried.



### THEORETICAL COVERAGE

ECOPOXY 610 : Appx.10 Sq.mtr / ltr / coat  
(2 Coats recommended) @ 100 micron WFT

### PACKAGING

20 ltr. kit (ECOPOXY 610)

### SHELF LIFE

One year from date of manufacture if stored in sealed packs below 25 degrees C.



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# ECOPOXY 610

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## Coal Tar Epoxy Coating for Protecting Concrete & Metal Surfaces



### HEALTH AND SAFETY

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### CLEANING

Tools may be cleaned with Falcon Solvent immediately after use. Once dry, by mechanical means only..

### TECHNICAL SERVICES

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