



Corrosol EMT

Solvent free epoxy moisture tolerant primer

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Product Features

Corrosol EMT is a solvent free, two component, high build moisture tolerant epoxy primer designed to penetrate into porous substrates such as concrete, screeds and masonry, to improve the bonding for other Corrotech epoxy repair, flooring & coating products, Excellent penetration and adhesion on damp concrete surface, but can also act as a cost effective, solvent free, clear sealer coat in low trafficked areas.

Corrosol EMT can be used as a primer on steel surface to improve bonding of other coatings such as polyurethanes and polyurea. With an extended over coat window it can also be used to hold the blast profile.

Typical Uses

Corrosol EMT is typically used as a moisture tolerant primer for concrete floors subject to light traffic, abrasion or chemical attack such as shops, warehouses, plant & mechanical rooms and workshops etc. It can be applied to damp surfaces.

Technical Data	
Properties	Typical values
Solid content %	100
Pot life @ 20°C minutes	20
Working Time@ 20°C (hours)	1
Initial hardness (hours)	24
Pull off strength (N/mm ²)	2.5
Mode of failure	From concrete
Compressive strength (N/mm ²)	45

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate. Internationally accepted good practice should be implemented for design, mixing, and application to receive high performance.

Prepare concrete surfaces preferably by mechanical methods such as grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for **Corrosol EMT**.

Steel

All steel surfaces to be coated should be abrasive blasted using a suitable blast medium to produce a minimum cleanliness of Swedish Standard SA 2.5 or equivalent and a minimum 60 microns angular profile. Remove all residual blast debris and inspect the surface. Profile checks should be taken and recorded. Once blast cleaned, the surface must be degreased and cleaned using **Corroclean** and all prepared surfaces must be coated before rusting or oxidation occur.

Where abrasive blast cleaning is not possible the surface should be roughend by MBX, needle gun or grinding.

Under these condition adhesion levels will not be optimal although still satisfactory for most applications.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Thoroughly mix both parts of **Corrosol EMT** together in full, using a slow speed drill and paddle for at least 4 – 5 minutes until a homogenous consistency is achieved. DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.

Application

We recommend checking the substrate before commencing works to ensure it is at least 3°C above dew point.

Apply **Corrosol EMT** using a brush or roller to the prepared surface at a theoretical coverage rate of 10 m² per litre at 100 microns per coat. Allow the primer to become tack free. A second priming coat may be required if the substrate is particularly porous. Re-prime if the primer coat has not been over coated within 18 hours.

Dust and surface contamination must be removed prior to applying subsequent products.

If using as a stand alone finish, a minimum of 2 coats of **Corrosol EMT** are recommended.

Curing

No special curing is required for **Corrosol EMT**.

Hot weather conditions

For application above 40°C we recommend adopting the following guidelines:



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Store unmixed materials in a cool preferably air-conditioned environment.

Avoid exposure of materials to direct sunlight.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools and equipment immediately after use with **Corroclean**.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded. The product should not be thinned with any type of solvent under any circumstances.

Estimating

Corrosol EMT pack size: 5 & 20 litre kits. Coverage rate approximately 10 m² per litre per coat at 100 microns

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrosol EMT has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life

This technical data sheet is given in good faith and does not guarantee the application work. All Corrotech technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the users responsibility to obtain the latest version of the information required.

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PTC/CSEMT - 2020 - 0