

Corrofloor MMA Primer

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Product Features

Corrofloor MMA Primer is a solvent free, 2 component, 100% reactive methyl methacrylate primer for use within the Corrofloor MMA system. **Corrofloor MMA Primer** should completely seal concrete surfaces resulting in a uniform satin finish. Bond promoter can be utilized with the **Corrofloor MMA Primer** as a suitable primer for metal and tile substrate applications.

Typical Uses

Every **Corrofloor MMA flooring system** is a multiple component system that utilizes a methyl methacrylate (MMA) resin. It is critical that the instructions listed in the material safety data sheet and on the product label for every component of the system be read, understood and followed. Suitable safe ventilation must be used during the application to minimize vapour collection in the installation area and to improve overall air quality for the installers. All foodstuffs must be removed during installation of the flooring system.

Technical Data		
Properties	Test Standards	Typical Values
Appearance		: Clear, slightly turbid liquid
Components		: One (plus MMA powder hardener)
Recommended thickness		: 100 – 300 microns
Coats		: One
VOC		: None
Applied over		: concrete, wood and tiles
Primer		: self priming
Method		: Brush, roll or squeegee
Minimum overcoat time		: touch - dry
Application temperature		: -29°C to 35°C
Percentage of reactive resin		: 100%
Water absorption (% at 24 hours)	ASTM D570	: <0.1%
Tensile strength	ASTM D638	: 30 N/mm ²
Elongation at break	ASTM D638	: 3%
Hardness (Shore D)	ASTM D2240	: 83
Viscosity	ASTM D2392	: 220 - 300 cps

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.

Maximum substrate humidity

Substrate	Ambient humidity (before and after coating)
Reinforced concrete floor	2.0 - 3.0%
Pumice concrete	3.0 - 5.0%
Cementitious screed, depending on mixing ratio	1.5 - 3.0%
Aerated concrete screed, cement-bound	2.5 - 3.5%
Cold bitumen screed, cement-bound	1.5 - 2.0%
Magnesia flooring	8.5 - 12.0%
Anhydride and gypsum screeds	less than 0.5%
Clipboard, hardboard, wooden floors	8.0 - 12.0 %

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 **Corrofloor MMA Primer**.

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 roughened by MBX, needle gun or grinding. Under these condition adhesion levels will not be optimal although still satisfactory for most applications.

Mixing

Mix the required MMA resin with the powder hardener supplied. The ratio is dependent on temperature. Please ask the CCC Technical Department for advice or obtain the mixing charts. Only mix enough resin and hardener that can be applied in the timeframe before cure of the product.

BPO hardener quantities for Corrofloor MMA Primer

Temperature [°C]	Hardener [w/w %]	Pot life [min]	Curing time [min]
+5	5	appr. 8	appr. 30
+10	4	appr. 8	appr. 30
+15	3	appr. 7	appr. 30
+20	2	appr. 8	appr. 30
>30	1	appr. 6.5	appr. 30

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Application

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

Apply **Corrofloor MMA Primer** using a brush or roller to the prepared surface, at a theoretical coverage rate of 10 m² per litre at 100 microns per coat. Upto 300 microns per coat of primer can be used dependant on application. 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.

Curing & Overcoating

Corrofloor MMA Primer cures dependant on temperature and volume of powder hardener. Application of Corrofloor MMA Bodycoat can start as soon as the primer is touch dry.

Estimating

Corrofloor MMA Primer pack size: 20 litres. Drum packaging available. Coverage rate: 10 m² per litre @ 100 microns thickness.

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 with 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

Corrofloor MMA Primer has a 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.