

Technical Data Sheet

MCU QUICKCURE®

Product and Technology Description

A 100% solids proprietary additive designed to accelerate the rate of cure of MCU-Coatings products except MCU-Coatings' High Heat products and MCU-INSULAT 230. It should also be used when relative humidity is lower than 30% and when temperatures are 5 °C or less.

Uses

Use when faster cure and overcoat times are required, when relative humidity is lower than 30% and when applying MCU-Coating's products in cold climates of 5 °C or less. Review the recoat times in the table below.

Advantages

With MCU-QUICKCURE recoat times can be reduced down to 30 minutes (see recoat timetable). A three-coat system can be applied in the same day.

Accelerating with MCU-QUICKCURE

Once MCU-QUICKCURE has been added to moisture cure products there will be a limited pot-life therefore accelerate only the materials that will be used on the day.

To avoid premature gelling or shorter pot-life issues:

- Open the paint and agitate as necessary to incorporate any settling or separation. Do not over-agitate. The zinc and micaceous iron oxide (MIO) pigment take at least 4 hours to settle once thoroughly incorporated.
- Add MCU-QUICKCURE once the product has been mixed and agitate only enough to incorporate the accelerator. Do not over agitate or keep the product under constant agitation.
- Immediately after agitation, put an MCU-THINNER solvent float over the top of the product inside of the drum. 50 - 100 ml is sufficient. Do not mix this float. It must stay on top of the coating to seal it from the air.
- Cover the container whenever possible.
- Avoid use and store accelerated material after 24 hours.
- Do not use MCU-QUICKCURE in the first coat when applying MCU-Coatings over concrete.
- Do not use MCU-QUICKCURE when applying on damp surfaces.

Precautions with MCU-QUICKCURE

Do not open and agitate MCU-Coatings paints with MCU-QUICKCURE when the product's temperature is below the dew point.

To prevent condensation forming on the inside of the can and to eliminate any risk of moisture intrusion during mixing and preparation store the coatings in an area that remains at least as warm as the dew point temperature. This is critical because any condensation on the surface of the paint will be mixed into the product when it is agitated.

If MCU-QUICKCURE is not used, MCU's coatings can tolerate some moisture intrusion; however, if MCU-QUICKCURE and moisture have been combined with the coating, a very short pot life of 1 to 4 hours can occur. Do not allow rain or water to fall directly into an open container.

Application

MCU-QUICKCURE accelerated coatings are designed for spray application. Brush and roll applications is possible. However, the usable pot life may be drastically reduced when brushes and rollers are repeatedly dipped into an accelerated coating. Avoid excessive mixing or high-speed mixing because when you create vortex it introduces unnecessary atmospheric moisture into the coating. Keep the container covered and use an MCU-THINNER or MCU-THINNER 25 float when the container is accelerated. The use of a dipping or roller pan is recommended for brushing or rolling.

MCU coatings can tolerate application to damp but not visibly wet surfaces. Using MCU-QUICKCURE accelerator in any MCU product will diminish the coating's ability to adhere to a damp surface. Do not use MCU-QUICKCURE on applications that will be immersed before they have fully cured. If in any doubt, contact MCU-Coatings for advice.

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MCU-QUICKCURE Recoat Times & Mixing Ratios

MIXING RATIO	Add 3% MCU-Quickcure per volume		Add 5% MCU-Quickcure per volume		Add 6% MCU-Quickcure per volume		Normally not needed, but if wanted add 5%		Add 5% MCU-Quickcure per volume	
COATING	MCU-Zinc** MCU-Miozinc*		MCU-Miomastic* MCU-Ferrogard*		MCU-Aluprime		MCU-Topcoat		MCU-Mastic	
MCU-Quickcure (Yes/No)	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
-20 °C	48 hours	10 hours	48 hours	10 hours	72 hours	12 hours	72 hours	12 hours	48 hours	10 hours
-10 °C	20 hours	4 hours	24 hours	6 hours	24 hours	8 hours	24 hours	8 hours	24 hours	6 hours
0 °C	12 hours	1.5 hours	12 hours	1.5 hours	18 hours	2 hours	18 hours	2 hours	12 hours	1.5 hours
10 °C	4 hours	45 minutes	4 hours	1 hour	10 hours	1.5 hours	10 hours	1.5 hours	4 hours	1 hour
25 °C	3 hours	45 minutes	3 hours	45 minutes	5 hours	1 hour	5 hours	1 hour	45 minutes	45 minutes
40 °C	3 hours	30 minutes	3 hours	45 minutes	3 hours	45 minutes	3 hours	45 minutes	4 hours	45 minutes

* Increase 50% of the curing times when DFT is above 125 microns

** Increase 100% of the curing times when build up to a DFT of 175 microns. Increase 50% of the curing times when DFT is above 125 microns

The curing times listed are approximate times required before recoating and are based on 60 % to 70 % relative humidity. Actual curing times vary depending on ambient temperature, substrate temperature, relative humidity and film thickness. Thicker films may require longer cure times.

Safety Precautions

This product is for industrial use only. Recommended respiratory, eye and clothing protection used for handling the MCU-Coating is adequate for handling MCU-QUICKCURE.

WARNINGS:

To protect skin and eyes from contact. Wear chemical splash goggles, rubber boots and gloves.

Product may cause severe skin burns. Remove product from skin and clothing by washing thoroughly with water.

Product may cause serious eye damage. Wash eyes thoroughly for 15 minutes if required.

Read the product label and MCU-QUICKCURE Safety Data Sheet before use.

Potential Fire Hazard

WARNING:

This product poses no unusual hazard in the container or in the coating; however, if the undiluted MCU-QUICKCURE is spilled, special steps must be taken. DO NOT WIPE UP WITH DRY RAGS. Finely divided small quantities of this material will create heat in rags much like oily rags. Rags containing this chemical that are piled or stuffed into closed containers can ignite. Caution must be taken. Material laying on the ground or in partial containers cause no hazard; however, if clean-up is done with rags, the rags must be thoroughly soaked with water.

Clean all spills with plenty of water and soak any rags with water prior to disposal. Call your MCU-Coatings representative for any question.

MCU QUICKCURE®

Packaging and Storage

Density:	0.87 g/cm ³
Flash point:	>60 °C
Packaging sizes:	0.5 / 1 / 5 / 10 and 25 litres
Shelf life / Storage:	2 years from date of manufacture if stored between 5 °C and 30 °C in a cool, dry place
UN proper shipping name:	UN 2735, LIQUID AMINE, Class 8, Packaging Group III

Warranty

MCU-Coatings warrants its products to be free from defects in materials. MCU-Coatings sole obligation, and Buyer's exclusive remedy in connection with the products, shall be limited, at MCU-Coatings' option, to either replace the products not conforming with this warranty or to credit the Buyer's account with the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to MCU-Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf-life, or six months from the delivery date, whichever is earlier. Buyer's failure to notify MCU-Coatings of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

MCU-Coatings makes no other warranties concerning the products. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall MCU-Coatings be liable for consequential or incidental damages.

Any recommendations or suggestions relating to the use of the products made by MCU-Coatings, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore the Buyer must satisfy itself as to the suitability of the products for its own particular use, and it shall be deemed that the Buyer has done so at its sole discretion and risk. Variations in environment, changes in procedures of use or extrapolation of data may cause unsatisfactory results.

Limit of Liability

MCU-Coatings' liability on any claim of any kind, including claims based upon MCU-Coatings' negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allowable for the products, or part thereof that gave rise to the claim. In no event shall MCU-Coatings be liable for consequential or incidental damages. Published Technical Data Sheets are subject to change without notice. Contact your MCU-Coatings representative for the most up to date Technical Data Sheets.