
Technology description

100 % solids proprietary additive designed to accelerate any paint of MCU-Coatings, except of the High Heat products or MCU-Insulat.

Uses

Can be used in any paint of MCU-Coatings when faster cure and overcoat times are desired, when relative humidity is lower than 30 % to 40 % or when application in cold climates of 5 degrees C or less. Review the recoat time-table for details.

Advantages

With MCU-Quickcure recoat times can be reduced down to 30 minutes (see recoat time table). A three coat system can be applied in about an hour. MCU-Quickcure helps eliminate the characteristic CO₂ bubbling that can occur in extremely thick applications.

Accelerating with MCU-Quickcure

Once MCU-Quickcure has been added to any paint of MCU-Coatings, there will be a pot-life. Accelerate only the materials that will be used the same day. To avoid premature gelling or shorter pot-life, use the following technique for addition:

- Open the paint and agitate as necessary to incorporate any settling or separation.
- Do not over-agitate. The pigmentation in MCU's products like zinc and micaceous iron oxide (MIO) will not settle once thoroughly incorporated.
- Add MCU-Quickcure to the thoroughly mixed paint of MCU-Coatings, and agitate only enough to incorporate the accelerator.
- Do not over agitate or keep any paint of MCU-Coatings under constant agitation.
- Immediately after agitation, put a solvent float over the top of the coating in the container. 50 - 100 ml of MCU-Thinner or MCU-Thinner 25 is sufficient.
- Cover the container when possible.
- Avoid using 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.

Mixing ratio

Standard 3 % to 7 % per volume is added to the paint, but this may be changed according the needs and ambient conditions.

3 % to 5 %:	MCU-Zinc / MCU-Miozinc
5 %:	MCU-Miomastic / MCU-Ferroguard
5 % to 7 %:	MCU-Aluprime / MCU-Mastic / MCU-Topcoats

Precautions with MCU-Quickcure

Do not open and agitate paints of MCU-Coatings with MCU-Quickcure when the coating's temperature is below the dew point. Condensation can form on the can and on the exposed coating. By maintaining the coating temperature to the atmospheric temperature this can be eliminated.

Any condensation on the surface of the paint could be incorporated during agitation. 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. To eliminate any risk of moisture intrusion during mixing and preparation, store MCU's coatings in an area that remains at least as warm as the dew point temperature. Do not allow rain or water to fall directly into the open container.

Application

MCU-Quickcure accelerated coatings are designed for spray application. Brush and roll applications are possible; however, the usable pot life may be drastically reduced when the accelerated coating is exposed to repeated dipping of brushes or mixing in the roller pan. Avoid excessive mixing or any action that will introduce 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 coating will diminish the coating's ability to adhere to a damp surface. Applications for immersion do not use MCU-Quickcure or contact MCU-Coatings for advice.

MCU-QuickCure recoat times table (5 % per volume)

Temperatures	MCU-ZINC MCU-MIOZINC		MCU-MIOMASTIC MCU-FERROGUARD		MCU-ALUPRIME MCU-TOPCOAT		MCU-MASTIC	
	without MCU- QuickCure	with MCU- Quickcure	without MCU- QuickCure	with MCU- Quickcure	without MCU- QuickCure	with MCU- Quickcure	without MCU- QuickCure	with MCU- Quickcure
-4 °C / -20 °F	48 hours	10 hours	48 hours	10 hours	72 hours	12 hours	48 hours	10 hours
14 °C / -10 °F	20 hours	4 hours	24 hours	6 hours	24 hours	8 hours	24 hours	6 hours
32 °C / 0 °F	12 hours	1.5 hours	12 hours	1.5 hours	18 hours	2 hours	12 hours	1.5 hour
50 °C / 10 °F	4 hours	45 min.	4 hours	1 hour	10 hours	1.5 hour	4 hours	1 hour
77 °C / 25 °F	3 hours	30 min.	3 hours	30 min.	5 hours	45 min.	45 min.	30 min.
104 °C / 40 °F	30 min.	30 min.	45 min.	30 min.	3 hours	30 min.	4 hours	50 min.

The cure 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. Consult the Material Safety Data Sheet for safe handling and use. Recommended respiratory and clothing protection used for handling the MCU-Coating is adequate for handling MCU-Quickcure.

Warning: fire hazard

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.

Warranty

MCU-Coatings warrants its products to be free from defects in materials. MCU-Coatings's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited at MCU-Coatings's option to either replacement of products not conforming with this warranty or to credit the Buyer's account 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 it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so at its sole discretion and risk. Variation 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 give rise to the claim. In no event shall MCU-Coatings be liable for consequential or incidental damages. Published Product Data Sheets are subject to change without notice. Contact your MCU-Coatings Representative for current Product Data Sheets.