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### Product and Technology Description

A 100% solids proprietary additive formulated to accelerate the rate of cure of MCU-Coatings® products. Not for use with MCU-Coatings® High Heat products and MCU-Insulat 230®.

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### Uses

Use when faster cure and overcoat times are required, when relative humidity is lower than 40%, and when applying MCU-Coating® products in cold climates of 5 °C or less.

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### Advantages

With MCU-Quickcure® recoat times can be reduced to 30 minutes (see recoat times in the table below) allowing even a 3-coat system can be applied on the same day.

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### Accelerating with MCU-Quickcure®

Once MCU-Quickcure® has been added to moisture cure products, usable pot-life may be reduced if not handled appropriately by removing the mixed products from exposure to the atmosphere, therefore it is recommended to only use in the product that will be used on the same day.

To avoid premature gelling or short 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 stays in suspension for > 4 hours once thoroughly mixed.
- Add MCU-Quickcure® after 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 mixing pour on a 'MCU-Thinner® solvent float', about 2mm thick. Do not mix this float into the product, it must stay on top of the coating to prevent moisture coming into contact with the product.
- Reduce MCU-Quickcure® by 50%/half of the recommended dose above 85% humidity and below 3°C of dewpoint, or when the substrate is damp.
- Cover the container whenever possible after adding MCU-Quickcure®.
- Avoid using accelerated material after 24 hours. Check this
- Do not use MCU-Quickcure® in the first 'sealer' coat when applying MCU-Coatings® to concrete.
- Do not use MCU-Quickcure® when applying product onto damp surfaces.

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### Precautions with MCU-Quickcure®

Avoid opening and agitating MCU-Coatings® with MCU-Quickcure® while the temperature of the product is below the dew point.

To prevent condensation forming on the inside of the can, and to eliminate any risk of moisture intrusion while mixing, store the product in an area that is warmer than the dew point temperature. Condensation may form on the surface of the paint and will be mixed into the product when it is agitated, affecting pot life.

If MCU-Quickcure® is not used, MCU-Coatings® can tolerate some moisture intrusion; however, if MCU-Quickcure® and moisture have been combined with the coating, it will have a reduced pot life between 1 - 4 hours.

Ensure rain or water does not fall directly into an open container of MCU-Quickcure® (or any MCU-Coatings®).

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### Application

MCU-Quickcure® accelerated coatings are designed for spray application. Brush application is possible, however, the usable pot life will be drastically reduced because when the brushes and rollers are repeatedly dipped into the coating they introduce air and moisture which accelerates the cure time. When application is by brush and roller over large surfaces, the use of MCU-Quickcure® may still be possible using simple techniques. Seek advice from MCU-Coatings® personnel.

Avoid excessive mixing or high-speed turbulence because egg-beating and vortexes introduce unnecessary moisture.

Keep the container covered and use MCU-Thinner® or MCU-Thinner® 25 as a float when the container has been accelerated.

MCU-Coatings® products can be applied to damp, but not visibly wet, surfaces. The use of MCU-Quickcure® can reduce a product's ability to adhere to damp surfaces. Do not add MCU-Quickcure® to products that will be immersed until they have fully cured. If in any doubt, contact MCU-Coatings® for advice.

## MCU-Quickcure Recoat Times & Mixing Ratios

| MIXING RATIO   | Add 3% MCU-Quickcure by volume |            | Add 5% MCU-Quickcure by volume                  |            | Add 6% MCU-Quickcure by volume |            | Normally not required, but if needed add 5% |            | Add 5% MCU-Quickcure per volume |           |
|----------------|--------------------------------|------------|---|------------|--------------------------------|------------|---|------------|---------------------------------|-----------|
|                | MCU-Zinc**<br>MCU-Miozinc*     |            | MCU-Mastic*<br>MCU-Miomastic*<br>MCU-Ferrogard* |            | MCU-Aluprime<br>MCU-Alutopcoat |            | MCU-Topcoat<br>MCU-Miotopcoat               |            | MCU-Clearcoat<br>MCU-Shieldcoat |           |
| With / without | 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  | 10 hours                        | 1.5 hours |
| 25 °C          | 3 hours                        | 45 minutes | 3 hours   | 45 minutes | 5 hours                        | 1 hour     | 5 hours                                     | 1 hour     | 4 hours                         | 1 hour    |
| 40 °C          | 3 hours                        | 30 minutes | 3 hours   | 45 minutes | 4 hours                        | 45 minutes | 3 hours                                     | 45 minutes | 4 hours                         | 1 hour    |

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

\*\* Increase 100% of the curing times when built up to a DFT of 175 microns

The curing times listed are approximate times required before recoating and are based on 60 % to 70 % relative humidity and a dry film thickness of 125µm. Actual curing times vary depending on ambient temperature, substrate temperature, relative humidity and film thickness. Higher film builds may require longer cure times

## Safety Precautions

This product is for industrial use only. Recommend that eye and clothing protection is used for handling MCU-Quickcure®.

- ◆ Read the product label and MCU-Quickcure® Safety Data Sheet before use.

## Storage & Shipping

Density: 0.87 g/cm<sup>3</sup>  
 Flash point: >86 °C  
 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 the requisite skill and know-how in the industry, and therefore the Buyer must satisfy itself as to the suitability of the products for their own particular use, and it shall be deemed that 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.