



# MC-DUR 215 UVR

## UV resistance Polyurethane Coating

### Product Properties

- Two Component Pigmented PU resin Based Coating
- Increased UV resistance and decreased yellowing
- Anti-Skid Coating for Mineral based substrates
- Provides a maintenance free and dust free substrate
- Protects the substrate from Environmental exposure.
- Provides good Corrosion resistance for the structure

### Areas of Application

- Coating for Laboratories, Shop floors, office room
- Coating for Balconies, Exposed Concrete Surface
- Coating for steel structures

### Application Notes

#### General

**MC-DUR 215 UVR** is a two component, PU Resin Elastomer Coating. The cured film is nontoxic and provides good chemical resistance, hence it is suitable for coating on the mineral based surface to provide it a dust free surface.

#### Advantages

**MC-DUR 215 UVR** has good adhesion to concrete, steel and masonry. The cured film has good resistant to water, corrosion, chemical attack. It Provides good UV resistance for the mineral based substrate. In addition, it is resistant to diesel oil, dilute acids and alkalis, as well as numerous organic solvents.

#### Instruction for use

##### Surface Preparation

All surfaces must be smooth, sound and free from any unsound material and any contaminations such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. For old structures, existing paints should be removed thoroughly and all the honey combs, pinholes, bug holes should be filled with Nafuquick range Mortars. The minimum concrete compressive strength necessary should be >25 N/mm<sup>2</sup>. A substrate pull off strength of 1.5 N/mm<sup>2</sup> is required

##### Mixing

**MC-DUR 215 UVR** supplied in prepacked quantities. First, the base component is mixed thoroughly and then the second component Pigment is added to the base. Both components are mixed together thoroughly and homogeneously for at least 2 minutes. Then the third Component Hardener will be added and again mixed for 3 min to get a homogeneous mix. Slowly rotating mixers with paddle (max.300 rpm) are suitable for mixing. Care should be taken to keep entrainment of air to a minimum while mixing.

#### Application

**MC-DUR 215 UVR** can be applied by Nylon bristle brush or Roller or through airless spray, Depending upon substrate. Application of Coating should be commenced on the **MC Dur range Primers** Primed Surface. The coverage of the primer should be considered 150 gm per sqmtr. if the surface temperature is more than 35°C then application of **MC-DUR 215 UVR** should immediately stopped.

Minimum Two coats of **MC-DUR 215 UVR** are recommended for achieving desired thickness. During the application of 1<sup>st</sup> coat the coating should be done in "X" Direction, ensuring continuation of coating throughout the surface need to be covered. 2<sup>nd</sup> coat should be applied after the 1<sup>st</sup> coat will be completely dry on the "Y" Direction, Ensuring Continuation of Coating throughout the surface. The Minimum WFT should be maintained 110µ per coat

#### Conditions of Application

During application of **MC-DUR 215 UVR** if the temperature of the structure and ambient temperature drops below +10°C the application of Coating should stop immediately.

#### Safety & Precaution

For all work with PU resins the appropriate protective clothing (safety glasses and gloves) should be worn. The unmixed hardener is highly alkaline and a skin irritant. It must not come into contact with the skin, especially the mucous membranes.

If resin gets into the eyes it should be removed immediately using an eyewash. Suitable eyewash should be kept on the building site at all times. Medical advice should be sought immediately.

#### Cleaning

All injection machines can be cleaned with **MC-Thinner EP** on completion of work or any extended break.

**Technical Data For MC-DUR 215 UVR**

Characteristic	Unit	Value	Comments
Pot life	Minutes	30 - 40	@ 25°C
Mixed Density	Gm/cm <sup>3</sup>	1.40	± 0.05
Mixing Ratio	p.b.w	9 1	Resin Hardener
Application Condition	°C % K	≥10 - ≤ 30 ≤ 85 3	Air, material and substrate temperature Relative humidity Above dew point
Solid Content(By Volume)	%	80±2	
DFT	μ	85	Per coat
Recoating Time	Hrs	2 - 4	@30 <sup>o</sup> C
Initial hardness	Hrs	16	@ 30 <sup>o</sup> C
Full Cure	days	7	@ 30 <sup>o</sup> C
Shore A Hardness		50	At 7 Days
Coverage	Gm/m <sup>2</sup>	150	Per coat at 85μ DFT

**Product Characteristics for MC DUR 215 UVR**

Colour	Available in desired Shades.
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	4 kg and 20 Packs
Storage	Can be stored in original sealed packages at temperature between +5°C and +25°C in dry conditions for at least one year. The same requirements are valid for Transport
Disposal	Packs must be emptied completely.

**Safety Advice**

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

**Note:** - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

**Edition:** - MC/IND/R0/Aug2020, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.