

MC 210 S

High performance polyurethane coating for steel structure and metal roof

Product Properties

- Two-component, acrylic polyol urethane coating
- High build to form a very glossy, levelled, chemical and abrasion resistant finish
- Premium grade pigments incorporated for high decorative and weather resistant values
- Resistant against UV radiation
- High impact and stain resistant
- Excellent Solar Reflectance Index (SRI) – White colour

Areas of Application

- Metal roof
- Steel structures

Application

Substrate Preparation

Surface to be coated must be free of dirt, grease, salts and chemical contaminations. If necessary, clean surfaces with a water soluble degreaser. Allow surface to dry before main application.

Surface dust must be removed with an industrial vacuum cleaner prior to coating application.

For fresh untreated metal / steel surface, prime surface with MC 110 S - epoxy mastic primer before applying MC 210 S.

Mixing

MC 210 S consists of a base and a hardener component supplied in pre-batched packs. Before application, the base component is mixed thoroughly by means of slowly rotating electrical drill with paddle. Then, hardener is pour into base component in the pre-weighed packing and continues to mix for 2 to 3 minutes until a uniform consistency.

Application

MC 210 S can be applied by brush, roller or spray. The material should be applied in uniform layer with overlapping at the edges of the spray pattern. All runs and sags should be brushed out immediately. Cracks, crevices, blind areas of rivets and bolts shall be coated by brush.

Airless Spray

Output Fluid Pressure : 2000 -2500 psi

Tip Size : 13 -18 thou

Fan Angle : 30° - 65°

An additional 5% of MC-Thinner No. 5 can be used for application at lower film builds.

Conventional Spraying

An addition of up to 10% MC-Thinner No. 5 will be necessary. Maximum dry film thickness (DFT) by this method is 75µm.

Only apply in conditions of good ventilation which must be maintained throughout the drying and curing period. Do not apply when rain or mist is imminent.

Coating System Build Up

Primer – 1 coat MC 110 S @ DFT 200µm

Topcoat – 2 coats MC 210 S @ DFT 50µm per coat

General Information

Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. For accurate coverage determination, a sample area should be laid and cover area determined. Higher temperature and lower humidity will speed up curing time whilst lower temperature and higher humidity will cause the opposite.

As raw materials are of natural resources, colour consistency can vary between different batches. Products from the same batch should be used for adjoining areas. The batch number is indicated on the label of the binder component. Batch numbers should be indicated for late orders.

Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.

Technical Data for MC 210 S (all values relate to +30°C and 50% rel. humidity)			
Characteristics	Unit	Value	Comments
Mixing Ratio	p.b.v	4:1	base : hardener
Density	g/cm ³	~ 1.25	at 25°C
Volume Solids	%	~ 55	
Film Thickness	microns	75-130 40-70	WFT DFT
Theoretical Coverage	litre/m ²	0.10	~ 50 microns DFT
Pot Life	minutes	45	at 30°C
Drying Time (30°C)	minutes	~ 30	Touch Dry
	hours	~ 4	Hard Dry
Overcoating (30°C)	hours	~ 4	minimum
Application Conditions	°C	+6 to +35	air and substrate temperature
	%	< 85	relative humidity (RH)
	°C	+3	above dew point

Product Characteristics for MC 210 S	
Cleaning Agent	MC-Thinner No. 5
Colour	White and other standard colours
Delivery	5 & 20 litres set
Storage	Can be stored in cool (below 25°C) and dry conditions for 12 months in original unopened packs.
Disposal	In the interest of the environment, please empty all containers completely & dispose of in accordance with local regulations.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets and please take notice of the leaflet, "Safety Measures for Handling Coating Materials and Reactive Resins".

Note: Bespoke vendor supplies. 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 observe 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 only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 05/16. 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.

Marketed by :

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