

## MONNELI MANTOCOLOR S

*Solvent Based Styrene-Acrylate Protective and Decorative Coating*

### Product Description

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A solvent based single component acrylate based anticarbonation coating. It is used to provide outstanding protective and decorative coating for concrete and cementitious surfaces. MANTOCOLOR S is an economical and ideal system to protect exposed reinforced concrete from the atmospheric aggressive factors such as acid rains, chloride and sulphate ions, water etc.

### Uses

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MANTOCOLOR S is used:

When used with IDROSIL XS, as primer the system provides an anti-carbonation coating with high protection against chloride attack and acidic rains

MANTOCOLOR S is used to protect exposed concrete structure, such as concrete bridges, retaining walls, etc. from the effect of acid gases, sulphate chloride ions, carbon dioxide

MANTOCOLOR S can be used as a decorative and protective coating for new, as well as, old concrete surfaces

### Advantages

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- One component, easy to apply using brush, roller or spray
- Excellent adhesion to the surface
- Highly durable to weathering and industrial pollution
- High UV resistant flexible coating
- Moisture vapour permeable which allows the substrate to breathe
- Can be produced in different colors
- Can be applied on old and new concrete
- Protect the concrete against chloride, and sulphate ions, water, etc.

### Instructions for Use

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#### Surface Preparation

The surface should be sound, dry, clean and free from grease, loose particles, oil, curing compound, laitance, or any other contaminating material.

Proper preparation for the surface is quite essential in order to achieve a good bonding with the coating. Grit blasting can be the best tool to achieve a clean surface. In case of algae or any other growth contamination, clean the surface with biocide after completing the grit blasting process.

After grit blasting, all surfaces should be cleaned of all loose material by blowing off the surface with dry oil free compressed air.

Remove all traces of curing compound and shuttering oil. Do not use paint remover or solvent to clean the surface. In case of deep contamination which is shown after blasting, clean the surface with steam using suitable detergent solution (in as 2% concentrate of non-ionic detergent in water)

In case of applying MANTOCOLOR S over an existing old coating, a trial to ensure its compatibility and bonding strength between both coating is required.

ACRYFIL, an acrylic based pinhole filler can be used for filling small pin holes and for levelling minor irregularities in order to achieve a uniform surface. If the surface contains medium size blow holes, minor irregularities or cracks, fill these holes using a suitable cementitious flexible plaster like RASOCELL.

Protect undesired areas which should not be coated, such as glass, plants, grass, asphalt painted areas, etc.

### **Priming**

On the clean dry surface apply IDROSIL XS as a primer using brush or proper spraying machine with a rate of 2.5 m<sup>2</sup>/ Liter. Primer can be applied in one or two coats depending on the substrate surface.

Allow the primed surface to totally dry before applying MANTOCOLOR S. It is recommend to apply the coating material immediately after the primer is dry to avoid any future contamination to the primed areas.

### **Mixing**

Stir MANTOCOLOR S in the container before use.

### **Application**

Apply MANTOCOLOR S using suitable brush, roller or airless spray gun. It may be needed to dilute the product with 3-5 % by weight of SOLVENTE 10 if airless spray gun is used.

It is recommended to apply two coat of MANTOCOLOR S. The second coat should be applied after 24 hours of applying the first coat and should be applied at right angles to the first coat. Each coat should be applied at a rate of 3.6 m<sup>2</sup>/ Liter.

The total recommended dry thickness for the system should not be less than 150 microns.

### **Curing**

Allow the final coat to cure for 7 days to achieve its final properties.

### **Cleaning**

Tools and equipment should be cleaned immediately after use with SOLVENTE 10. Hardened material should be removed mechanically.

### **Recommendations**

- Proper surface treatment is a key element to achieve an effective coating system. Extra care to follow the instructions as per data sheet and method of application
- MANTOCOLOR S should not be applied over non porous substrate

- Primer should be totally dry before applying MANTOCOLOR S
- In case of application over existing coating, site trials should be carried out to ensure compatability and adhesion between ti new and old coatings
- MANTOCOLOR S and IDROSIL XS primer are flammable. Keep the product away from any source of ignition. Smoking in the working area is not allowed

### **Technical Data**

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Properties	Results
Appearance	Thixotropic liquid
Specific gravity at 25°C	1.16
Water absorption	Nil after 24 hrs
Permeability	Nil after 24 hrs
Depth of carbonation	Nil after 24 hrs
Application temperature	From +5°C to +30°C
Recommended DFT	minimum 150 microns

All values are subject to 5-10 % tolerance

### **Applicable Standards**

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- BS 1881
- ASTM C 1202

### **Consumption**

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3.6 m<sup>2</sup> / Liters /coat

### **Packaging**

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MANTOCOLOR S is supplied in 20 liter in pails.

## Storage

Store MANTOCOLOR S in a dry and covered place away from direct sunlight into the original well-closed packaging. A shelf life of 12 months is expected if stored as recommended.

## Health & Safety

MANTOCOLOR S is a solvent-based product. Avoid contact with skin or eyes. Provide adequate ventilation in working place to avoid inhalation of dust. Use suitable clothes, goggles and gloves while applying.

In case contact with eyes, wash abundantly with warm water and seek immediately for medical treatment.

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DUBAI  
ABU DHABI  
KSA  
ITALY

P.O. Box 123808 Dubai UAE  
P.O. Box 127326 Abu Dhabi, UAE  
P.O. Box 335896 Code: 11383 - Riyadh KSA  
Z.I. Ponte d'Ássi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450  
T. +971 2 5511949 F. +971 2 5511749  
T. +966 1 2654277 F. +966 1 2654335  
T. +39 75 9221297 F. +39 75 9221174

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[colmef@colmef.ae](mailto:colmef@colmef.ae)

[www.colmef-me.com](http://www.colmef-me.com)