

# MasterKure 176

## Hydrocarbon resin based evaporation reducer for concrete surfaces

### DESCRIPTION

MasterKure 176 is a hydrocarbon resin based evaporation reducer which is applied on freshly poured concrete to enable optimum strength by holding water inside the concrete with its film layer and reducing shrinkage by preventing rapid drying.

### FIELDS OF APPLICATION

- While curing vertical and horizontal structural elements
- High-rise concrete buildings for which water curing is hard.
- Airport and field concrete
- Channel and chute concrete
- Concrete pouring where humidity is low, evaporation and air flow is high.
- Surface hardening applications
- Surface to be coated with plaster, grout, paint, tiles and epoxy resins.

### FEATURES and BENEFITS

- Enables hydration of cement by forming a film layer to hold the moisture in the concrete.
- A more efficient and economical method compared to similar cure methods like sack, burlap and watering.
- Enables harder and smoother surface.
- Reduces shrinkage cracks caused by rapid drying.
- All cement and resin based applications can be applied on cured surface.
- Suitable to use in closed areas.
- Easy to apply, reduces labor costs.
- MasterKure 176 does not contain solvent.

### APPLICATION PROCEDURE

MasterKure 176 should be applied by homogenous spraying or by rolls on freshly poured concrete. MasterKure 176 is applied on surface finished surfaces of field, road and slab

concrete and surfaces of concrete placed in molds after demolding.

- MasterKure 176 is suggested to spray on concrete surface to obtain a uniform structure.
- MasterKure 176 should be applied as a thin layer with a roll. Forming of congestion has to be prevented by a balanced application of the material.
- Local color differences may occur as a result of heterogeneous application. These differences will vanish through the days.

### COVERAGE

MasterKure 176 recommended coverage is 0,20 kg/m<sup>2</sup>-0,25 kg/m<sup>2</sup>. For cementitious dry shakes applications recommended coverage is 0,15 kg/m<sup>2</sup>-0,20 kg/m<sup>2</sup>. In open air and windy environments, MasterKure 176's coverage can be increased 0,30 kg/m<sup>2</sup> for effective curing. Coverage is reduced in inner surfaces under shadow. BASF Yapı Kimyasalları Sanayi A.Ş. Technical Service should be consulted for detailed information.

### CLEANING

Spraying devices and/or rolls used in the application should be cleaned by warm water. If the spray nozzle will be used again, then it is suggested to be left in water.

### PACKAGING

MasterKure 176 is available in 180 kg barrels.

### CONTACT DETAILS

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| Product Data                |  |
|-----------------------------|--|
| Structure of the Material   | Hydrocarbon Resin Based  |
| Appearance                  | Clear liquid   |
| Specific gravity @ 20°C     | 0.87- 0.89 kg/lt   |
| Finished Film Appearance    | Opaque layer   |
| Drying Time ASTM C 309      | 45 minutes   |
| Flash Point                 | +88 °C   |
| Water Holding ( ASTM C 156) | Passes   |
| Water Holding (ASTM C 309)  | Max 0.55 kg/m <sup>2</sup> at the end of 72 hours  |
| Logistics                   |  |
| Shelf life                  | 12 months if stored according to manufacturer's instructions in unopened container.  |
| Storage conditions          | Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. |
| Handling and transportation | Refer to MasterKure 176 Safety Data Sheet.   |
| Disposal                    | Refer to MasterKure 176 Safety Data Sheet.   |

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### HEALTH AND SAFETY

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### SPILLAGE

Chemical products can cause damage; clean spillage immediately.

### DISCLAIMER

"BASF Türk Kimya San. ve Tic. Ltd. Şti. Construction Chemicals Division" (the Company) endeavors to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest product literature.