

TECHNICAL DATA

PRODUCT NO. 01.010

BETONAC-DM 2

WATER REPELLANT ADMIXTURE FOR CONCRETE AND MORTAR

Description

BETONAC-DM 2 is a balanced blend of stearate water repellants and other chemicals which, when used as an admixture, forms an internal barrier against water penetration. **BETONAC-DM 2** also increases the plasticity of mortar, reduces water absorption and thereby guards against freeze-thaw damage.

It is available in a liquid formula which contains substances for additional densification of the mortar or concrete. **BETONAC-DM 2** will not increase the air content of mortar or concrete.

Features and Primary Applications

BETONAC-DM 2 reduces water penetration in mortar and concrete under hydrostatic pressure. It is applied in building roof, basement, tunnel, roadway, drain tank and pumping station where water penetration resistance is required.

BETONAC-DM 2 improves concrete compactness, anti-crack and anti-seepage performance. As a result, it compensates concrete shrinkage and saves cement consumption. The anti-seepage rate can reach up to P25.

BETONAC-DM 2 does not reduce concrete compressive strength. It has no pollution to water and no corrosion to steel.

BETONAC-DM 2 can be used for the interior water repellent, instead of exterior surface treatment. So that it provides continuous protection.

BETONAC-DM 2 achieves perfect water repellent effect when combined with water reducing and air entraining admixtures. Air-entraining agent provides stable microscopic air void system with proper bubble size and spacing, which can reduce permeability. While, water reducing agent can reduce consumption,

improve concrete workability, and increases concrete compactness.

- Mass concrete
- Foundation walls
- Floors
- Cement stucco
- Mortar for setting masonry

Features/Benefits

Reduces moisture absorption as much as 60%

- Reduces capillary action
- Reduces vapor transmission through walls and slabs
- Provides greater workability
- Does not affect bond strength of mortar

Technical Information

Typical Engineering Data

Appearance

BETONAC-DM 2 liquid has an white color.

Test Results	Absorption Ratio	Relative Absorption	Concrete Absorption Total Immersion	
			10 minutes	24 Hours
Plain Mortar	.34	100%	1.28%	4.10%
Concrete with „Liquid“ Waterpeller	.8	28 %	—	—

Packaging

BETONAC-DM 2 is packaged in 210 Lt drums and 20 Lt pails

Shelf Life / Storage

1 year in original, unopened package and must be stored above 0 °C

Dosing rates

Add 0,8 Lt of BETONAC-DM 2 per bag of cement

Directions for use

Add BETONAC-DM 2 to concrete or mortar in the following proportions:0.8 Lt per bag of cement

In cement-lime mortar the above quantities should be added for each 0.03 m³ of lime, in addition to the quantity added for each bag of cement. BETONAC-DM 2 may be added to the mix after all other components have been added.

The aggregate size should be from 5 to 25 mm. The mixing time of water repellent admixtures should be at least 3 minutes. Water repellent concrete should be cured during early time for 7 days at least under moisture condition.

Remark:

All information in this brochure is based on our practical experience and reliable research in our laboratory. Nevertheless, we will assume for the use of the information no responsibility because of the conditions and circumstances under which stored the products in practice, handled and processed, will have no influence. For detailed information and advice, our experts are always available. 07/30/2010