



# MC-Schnell SDS

## A Universal Accelerator and Quick Setting Aid for Plugging and Sealing mortars

### Product Properties

- Shortens the setting time of concrete
- Good plasticizing properties

### Areas of Application

- To stop water leakages and seepage in basements, shafts, galleries, tunnels etc.
- Rapid sealing of water tanks, coolers etc.
- For quick rendering work to keep out ground or seepage water
- For quick installing railing posts, tie bars, etc.
- For underwater concreting

### Application Notes

#### General

**MC-Schnell SDS** is a liquid accelerator to be used as an admixture for mortars. The setting time can be shortened down to 2-3 minutes depending upon the amount added. Apart from quick setting, mortar can be used efficiently to plug and seal in-rushes of water.

#### Instructions for Use

We recommend in every case of application to perform a test using the actual cement. Mix 3 pbw of cement with 1 pbw of **MC-Schnell SDS** and add water to get a stiff paste. At a temperature of 30°C, setting should not start later than 3 minutes after adding the water. The setting time can be adjusted by varying the dosage.

The amount of **MC-Schnell SDS** added should be determined by a preliminary test using the actual cement and aggregates for the project concerned. As a guiding factor, we recommend (Portland cement, temperatures 25°C, 50% Relative Humidity) to admix **MC-Schnell SDS** as shown in table below.

For seepages through masonry and concrete, we recommend following mix for quick sealing of water in-rush: 1 part by volume of **MC-Schnell SDS** + 5-6 parts by volume of cement + 5-8 parts by volume of sand

Mix with water until the required trowellable consistency is obtained. To get a permanent dry surface use an additional plaster coat with **Putz-Dichtament**. For further protection from dampness use **Dichtament DS** slurry coat.

**MC-Schnell SDS** liquid can be added to the gauging water or can be added to cement sand slurry.

Mix only that amount which can be placed immediately as after start of setting it cannot be used any more. In cases if temperature is below 0°C, it is recommended to warm up cement and aggregates to ensure the optimum result. Warm water can also be added.

While using **MC-Schnell SDS** in a mortar to seal leakages mix it in a ratio of 1 to 3 pbv with cement and make a slurry consistency. The surfaces to which the mortar is to be applied must be free

from loose particles. For leakage spots cut the joint in a dovetail form.

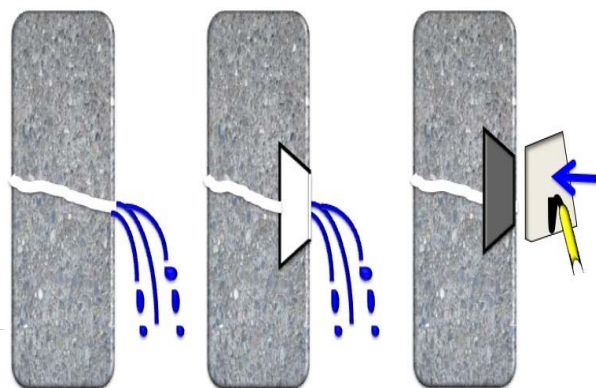
Then prepare the **MC-Schnell SDS** based mortar in a stiff form and press it firmly to the leakage for about 3 to 4 minutes. For ready to use purposes use MC-Fix-ST, quick stopper.

### Further Instructions / Precautions

#### Recommended Mixing Ratio for use of MC-Schnell SDS in Cement sand Mortars

Mixing Ratio			Setting Time		MC-Schnell SDS Dosage in kgs per kg of cement
Cement	Sand	MC-Schnell SDS	Start (minutes)	End (minutes)	
1	0	1/3	Immediately	4 to 5	0.20
1	1	1/5	3 to 5	8 to 12	0.14
1	1	1/10	8 to 10	20 to 30	0.05
1	2	1/5	5 to 8	15 to 25	0.14
1	2	1/10	15 to 20	30 to 40	0.05
1	3	1/5	10 to 15	30 to 40	0.14
1	3	1/10	20 to 30	40 to 50	0.05

#### Application Example of MC-Schnell SDS Mortars to Plug water in-rush



### Technical Data For MC-Schnell SDS

Characteristic	Unit	Value	Comments
Density	Grams / cm <sup>3</sup>	1.20	± 0.02
Minimum application temperature	°C	20°C	
Dosages	Parts by weight	-	Recommended in Table above

### Product Characteristics for MC-Schnell SDS

<b>Type of Product</b>	Universal accelerator and quick setting aid for plugging and sealing mortars
<b>Form</b>	Liquid
<b>Colour</b>	Transparent
<b>Shelf Life</b>	12 Months from Date of Manufacture
<b>Delivery</b>	30 Kg pails and 5 Kg pails
<b>Storage</b>	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
<b>Disposal</b>	Empty packs completely and dispose off carefully to protect our Environment

**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 may 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. E. & O.E.

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