

Invitation to the Sprayed Concrete Workshop Level 3

Hagerbach, Switzerland, 6 - 8 October 2021

Master Builders Solutions Underground Construction

Dear Tunnellers and Miners

We would like to invite you to our Sprayed Concrete Workshop, covering comprehensively sprayed concrete typically used for rock support and final lining applications, held in the Hagerbach Test Gallery, Switzerland, 6 - 8 October 2021. This Level 3 is a "Show & Tell" workshop covering all aspects of sprayed concrete. We are providing the theoretical part as e-learning beforehand (Levels 1 and 2). This allows us to concentrate more on the practical aspects in this Level 3 Workshop.

The workshop at a glance

The main goal of this practical workshop is to address the important parameters for temporary and permanent sprayed concrete. The workshop features the latest concrete technology as well as application methods and techniques for sprayed concrete. Equipment aspects concerning pumping and spraying. The following fundamental topics will be covered:

- » Sprayed concrete for rock support
- » Mix design
- » Fresh concrete testing
- » Application techniques
- » Strength development of sprayed concrete & testing of hardened concrete with penetration needle plus HILTI SCT
- » Alkali-free accelerator technology
- » Performance & reactivity testing of alkali-free accelerators in mortar and paste
- » Spraying equipment
- » The latest in concrete spraying equipment technology
- » Trouble shooting
- » 3D spraying simulator competition

This workshop is aimed at contractors, consultants, owners and Master Builders Solutions representatives in the tunneling and underground mining industry. All personnel that are involved in the temporary and permanent support of underground structures will benefit from this workshop. The e-learning modules Level 1 and 2 are compulsory *before* attending the workshop. Access to these e-learning modules will be supplied in due time.

Workshop program (as of 30.6.2021)

Wednesday, 6 October 2021

Latest by 17:45	Meeting point: at the "Hello Bar" in Terminal 1 Arrivals
18:00 - 19:30	Transfer from Zurich airport to the welcome and dinner at Hotel Post, Sargans
19:30 - 21:50	Welcome and dinner at Hotel Post
22:00	Transfer to hotels

Thursday, 7 October 2021

07:15 - 07:30	Meet at your hotel reception & pick up
07:30 - 07:45	Bus transfer to Hagerbach
08:00 - 17:00	Theoretical and practical sessions with group work underground, includes lunch in Hagerbach Underground Restaurant
03:00 - 18:00	Transfer back to the hotels
19:00 - 19:30	Transfer from your hotel to dinner (special event)
19:30 - 22:00	Dinner
22:00 - 22:30	Transfer back to your hotel

Friday, 8 October 2021

07:15 - 07:30	Meet at your hotel reception & pick up
07:30 - 07:45	Bus transfer to Hagerbach
08:00 - 15:30	Theoretical and practical sessions with group work underground, includes lunch in Hagerbach
Approx: 15:45	Bus departs for Zurich Airport.

(estimated time of arrival Zurich Airport 17:30 – 17:45)

Practical information

The entire workshop, both theory and practical sessions, takes place in the underground galleries of the Hagerbach test facility. Practical sessions involve working with sprayed concrete mixing, testing and application (typical site conditions). All presentations and instructions are held in English language.

Participants are required to bring their own working overalls and boots/shoes. Helmets, safety glasses, dust masks, gloves and ear plugs will be provided at the workshop. Ambient temperature underground in Hagerbach is approximately 15° C. The outdoor temperature at this time of year can vary between +2 to +12° C.

Note that there will be the Master Builders Solutions Injection Workshops from 4 - 6 October 2021. You also got the invitation to this workshop in the same mail.

Costs

The participants are required to cover their own flights/travel costs to and from Switzerland (Zurich Airport).

Participants will be charged CHF 1450 per person per workshop for the following:

- hotel accommodation from 6 - 8 October 2021;
- transportation from and to the airport, when travelling with the workshop buses,
- local transportation,
- special event,
- breakfasts, lunches and dinners.

Please note that a cancellation fee will be charged, for any cancellations within 5 days before the workshop start date.

For those requiring rooms before or after the workshop dates, the rooms have to be organized and paid by the participants themselves.

Organizational details:

Travel information:

Transportation from Zurich Airport to the workshop location and back by bus will be provided. Departure time from Zurich Airport on Wednesday early evening at 18:00 - those arriving later can take train service from Zurich Airport to Walenstadt or Sargans at their own cost.

For those arriving early, you do not have to wait at the airport until 18:00:

- If you would like to visit Zurich, there are trains which take you to Zurich downtown (travel time approx. 10 minutes). Make sure that you will be back at the airport before 18:00.
- If you prefer to make your own way to the hotel (on your own cost), please let us know.

Please plan as follows:

The latest time of your arrival Zurich Airport should be Wednesday 6 October 2021 at 17:00.

The earliest time of your departure from Zurich Airport back to your destination should be Friday 8 October 2021 at 19:00.

Hotel

Hotel accommodation during the workshop dates will be automatically booked by us.

Please register for the workshop as soon as possible with ugc-workshops@mbcc-group.com.

If you have any questions, please send a mail to ugc-workshops@mbcc-group.com

We are looking forward to welcoming you in Switzerland on 6 October 2021



Roland Mayr

*Global Technical Manager
Sprayed Concrete Master Builders Solutions UGC*

Workshop Chairman

