

Slot Die Coating Masterclass



Preliminary agenda / the agenda may change in the course of the masterclass / Subject to changes

Program Day I – Tuesday, September 9th, 2025

9.00 am – 9.30 am **Welcome, course overview, safety briefing**

COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre

9.30 am – 11.00 am **Fundamentals of slot die coating**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

11.00 am – 11.15 am **Coffee break**

11.15 am – 12.15 pm **Mathematics behind slot die – Part 1**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

12.15 pm – 1.00 pm **Lunch break**

1.00 pm – 2.00 pm **Mastering your materials**

MaterialsXpertise, Dr. Mariëlle Wouters – CEO

2.00 pm – 2.30 pm **Particle measurement**

ANTON PAAR GERMANY GMBH, Vanessa Fronk

2.30 pm – 3.00 pm **Viscosity measurement**

ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk)

3.00 pm – 3.30 pm **Contact angle measurement**

DATA PHYSICS, Peter Oberschachtsiek

3.30 pm – 3.45 pm **Coffee break (R&D centre) & safety clothes R&D centre**

3.45 pm – 4.00 pm **Preparation of trials – What is needed to coat?**

COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist

4.00 pm – 5.00 pm **Three groups:**

Room 1 (Measuring Lab) **Measurement viscosity**, ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk)

R&D centre Office 2 **Measurement contact angle**, DATA PHYSICS, Peter Oberschachtsiek

R&D centre **Hands on session (Mounting the slot die)**, R&D team

5.15 pm **Transfer to social dinner event**

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Program Day II – Wednesday, September 10th, 2025

8.30 am – 8.35 am **Welcome & introduction**

COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre

8.35 am – 9.30 am **Mathematics behind slot die coating – Part 2**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

9.30 am – 10.15 am **Rheology for non-Newtonian fluids**

MaterialsXpertise, Dr. Mariëlle Wouters – CEO

10.15 am – 10.30 am **Coffee break**

10.30 am – 11.30 am **Advanced slot die coating and peripheral equipment**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

11.30 am – 12.30 pm **What comes after the coating? Fundamentals of drying technologies**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

12.30 pm – 1.15 pm **The necessity of numerical simulations for slot die coating**

COATEMA COATING MACHINERY GMBH, Klaus Peter Crone, Slot Die Expert / MaterialsXpertise, Dr. Mariëlle Wouters

1.15 pm – 2.00 pm **Lunch break**

2.00 pm – 3.30 pm **Three groups:**

Room 1 (Measuring Lab) **Viscosity measurement of battery slurry,** ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk)

R&D centre Office 1 **Particle analysis on selected samples,** ANTON PAAR GERMANY GMBH, Vanessa Fronk

R&D centre Office 2 **Process optimisation and guarding,** BST GmbH, Kai Prahl

3.30 pm – 3.45 pm **Coffee break (R&D centre)**

3.45 pm – 4.15 pm **Trials – Slot die trouble shooting**

COATEMA COATING MACHINERY GMBH, Slot Die Expert / Kira Grefkes - Manager R&D centre / Muammar Mor – Process Specialist

4.15 pm – 4.30 pm **Q&A session and closing remarks**

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Stand: 16.07.2025 V07