

Slot Die Coating Masterclass



Program Day I – Wednesday, January 29th, 2025

9.00 am – 9.30 am	<p>Welcome, course overview, safety briefing</p> <p>COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre</p>
	<p>Who are we? – Introduction of the speakers Who are you? – Answers statistical</p> <p>Questionnaire before the event for every participant:</p> <ul style="list-style-type: none"> ✓ What industry are you in? ✓ Battery/Fuel Cell/Solar/Packaging/Printed electronics/etc. ✓ Which coating methods do you already use in your process? ✓ In which technology you are interested the most? ✓ Slot die coating <ul style="list-style-type: none"> ✓ Bead mode ✓ Curtain Coating ✓ Drying Technologies (Hot air/NIR/IR) ✓ Material analysis ✓ Calculations for slot die coating (Theory) ✓ Calculations for slot die coating (Practice) ✓ What do you expect from these two days? ✓ More questions welcome
9.30 am – 10.30 am	<p>Fundamentals and machinery for slot die coating</p> <p>COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert</p>
10.30 am – 10.45 am	Coffee break
10.45 am – 11.15 pm	<p>Theory / Mathematics behind coating</p> <p>COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert</p>
11.15 am – 12.15 pm	<p>Mastering your materials</p> <ul style="list-style-type: none"> ✓ Viscosity, Surface energy/tension ✓ Particle sizes ✓ Fingerprint <p>MaterialsXpertise, Dr. Mariëlle Wouters</p>
12.15 pm – 1.00 pm	Lunch break
1.00 pm – 1.30 pm	<p>Guided tour Coatema R&D centre</p> <p>COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist</p>
1.30 pm – 2.00 pm	<p>Practical session 1: Preparation of trials - What is needed to coat?</p> <p>COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist</p>
2.00 pm – 3.30 pm	<p>Practical session 2: Hands on session</p> <p>COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist</p>
3.30 pm – 3.45 pm	Coffee break (R&D centre)
3.45 pm – 5.00 pm	<p>Practical session 3: Coating trials</p> <p>COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist</p>
5.15 pm	Transfer to social dinner event

Slot Die Coating Masterclass



Program Day II – Thursday, January 30th, 2025

9.00 am	–	9.05 am	Introduction Day 2: Recap Day 1
			COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre
9.05 am	–	9.50 am	Non-Newtonian fluids
			MaterialsXpertise, Dr. Mariëlle Wouters
9.50 am	–	11.00 am	Advanced 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	The necessity of numerical simulations for Slot Die Coating
			COATEMA COATING MACHINERY GMBH, Klaus Peter Crone, Slot Die Expert / MaterialsXpertise, Dr. Mariëlle Wouters
12.15 pm	–	1.00 pm	Lunch break
1.00 pm	–	1.30 pm	Practical session 4: What is needed to coat non-newtonian fluids?
			COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre
1.30 pm	–	2.30 pm	Measuring Non-Newtonian substrates
			MaterialsXpertise, Dr. Mariëlle Wouters
2.30 pm	–	2.45 pm	Coffee break (R&D centre)
2.45 pm	–	4.00 pm	Practical session 5: Coating trials Easycoater: Coating non-newtonian fluid
			COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist
4.00 pm	–	4.30 pm	Q&A session and closing remarks / Recap from the questions at day 1: What did you expect?

Stand: 21.01.2025 V05