

# COATEMA Research & development centre – Terms of use 1 / 5

**The present conditions regulate the use of the Coatema research & development centre (hereinafter R&D centre).** The R&D centre is equipped with a wide range of machines that can be used for research, feasibility studies and process development.

The primary services of the Coatema R&D centre are:

- ✓ Product development and product optimization
- ✓ proof of the suitability of production processes
- ✓ proof of performance parameters
- ✓ the determination of reference data for production trials

Various systems are on the scale of production lines, however, as they are located in our R&D centre the primary purpose is the performance of test trials. Production based tools is not the focus of the services we offer in the R&D centre.

## 1.) Equipment of the R&D centre

The technical specifications of the available equipment are described in individual data sheets. The technical data sheets are provided upon request, depending on the equipment employed. It is possible to customize the set-up or install additional components, at additional cost.

## 2.) Prices

The R&D centre’s daily flat rates, depending on the selected tool are as follows:

| <b>Research &amp; development centre Dormagen</b> |                                   |                      |                     |
|---|-----------------------------------|----------------------|---------------------|
|   | <b>R2R / Machine / Type</b>       | <b>Working width</b> | <b>Rent per day</b> |
| EC  | Easycoater                        | DIN A4               | request a quote     |
| EC  | Easycoater                        | DIN A3               | request a quote     |
| TS  | Testsolution S2S (Sheet-to-Sheet) | DIN A4               | request a quote     |
| TR  | Testsolution R2R (Roll-to-Roll)   | 100 mm               | request a quote     |
| NI  | Nanoimprint                       | 300 mm               | request a quote     |
| SC  | Smartcoater                       | 300 mm               | request a quote     |
| VC  | Verticoater                       | 300 mm               | request a quote     |
| LS  | Linecoater                        | 400 mm               | request a quote     |
| LS  | Linecoater                        | 500 mm               | request a quote     |
| IC  | Inertcoater                       | 400 mm               | request a quote     |
| SM  | Multifunctional – Coating line    | 400 mm               | request a quote     |
| CC  | Click&Coat™                       | 500 mm               | request a quote     |
| DC  | Deskcoater                        | 500 mm               | request a quote     |
|   | Calender (Standalone)             | 500 mm               | request a quote     |

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The above rates include the following resources within the rates:

- ✓ The personnel required to manage the trial(s) and operate the equipment. An extension of working hours beyond the specified period can be agreed with the trial supervisor on a case-by-case basis. In doing so, working time regulations and the individual reasonableness for the employees must be observed. Overtime is charged at 10 % of the daily rent per hour.
- ✓ If the requirement for cleaning of the equipment after the trial is normal, no additional costs will be incurred. If special cleaning agents or measures are needed, additional cleaning costs are charged. If the cleaning time exceeds one hour additional costs of 10 % of the daily rent for the corresponding machine are levied. It is obligatory to inform Coatema before the trials if special cleaning agents or special measures are necessary.  
Basic cleaning (if necessary): all-inclusive 500 €
- ✓ The prices are exclusive VAT

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### 3.) Additional expenses

The standard rates for the equipment do not include the following costs:

- ✓ Rent and/or installation of additional equipment that is not part of the standard set-up  
Engraving of application rollers
- ✓ Remodeling / machine adjustments or costs for mechanical modifications of the Equipment

If any of these special services are requested for your trial, please contact Coatema in advance to receive a quote.

Coatema will also charge the expenses incurred in connection with the safe disposal any residual materials not disposed of by the customer.

Any extension of the scheduled duration of the trial can result in additional costs. The discussion of the conditions for an extension of the duration of the trial can take place either during the planning phase of the trial or during the trial itself.

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### 4.) Trial Times

The trials are performed from 9 am to 4 pm (including 30 minutes lunch break). The trials (including potential conversion work at the equipment) will be prepared before 9 am. The cleaning of the used equipment starts after 4 pm.

## 5.) Dates

With the preparation of the offer, the corresponding equipment is reserved. The reservation is initially non-binding for both parties. At this point for a cancellation of the trial no costs are charged. A binding reservation is made at least 6 weeks before the planned start of the trial by sending an order confirmation from Coatema to the customer. If the customer cancels the reservation between the order confirmation and the planned start of the test, Coatema reserves the right to charge the costs fully or partially.

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## 6.) Conversion / machine adjustments

Necessary measures for modifying or adapting the equipment or providing additional components must be clarified in advance. Depending on the necessary effort, these clarifications should be done at least 6 weeks before the start of the trial.

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## 7.) Provision and disposal of materials

Unless otherwise agreed, the customer is responsible for providing and disposal the test materials, such as substrates and coating materials. The customer is responsible for sending these materials on time.

The materials have to be shipped on pallets (where appropriate), properly packed, secured and clearly labelled with the order number. Rolls of material should be delivered horizontally (lying down). The time slot for the arrival of the shipment must be coordinated with Coatema. Materials sent too far ahead of the planned trials cannot be stored at Coatema and might have to be stored externally at additional cost. Storage and transport costs are borne by the customer.

If no other arrangements have been made and the residue materials remain more than 14 days after the trial at the R&D centre, Coatema will charge the customer expenses incurred in connection with the safe disposal of these residue materials.

If the customer agrees that the residual materials are sent back to the customer, packaging and transport costs will be charged.

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## 8.) Test documentation

The customer receives a report after the trial. A dedicated photo/video camera is available for the duration of the test. This camera can be used for documentation.



It is not permitted to use other cameras or smartphones to create film and / or video recordings inside the R&D centre. Photography and filming is prohibited on the entire Coatema site, especially in the R&D centre!

## 9.) Safety

Solvent:

- ✓ Explosion protection limits: 20 g/m<sup>3</sup> at 20 °C and 101 kPa, taking into account a safety factor of 50 %.
- ✓ Ignition temperature: > 294 °C, flash point: > -17 °C,
- ✓ (exclusion of the processing of solvents exceeding these limits)
- ✓ IR emitters cannot be used
- ✓ Thermal oil temperature limited to 235 °C
- ✓ Exhaust air volume flow of the plant to 100 %

**As a matter of principle, Coatema must be informed about the solvents, their properties, handling and quantities used and the relevant safety data sheets (MSDS) must be made available.**

Toxic substances:

- ✓ If toxic substances can be released during the performance of the test (e.g. through handling or processing of the product), the customer must inform Coatema about the necessary safety measures and provide the necessary protective equipment (e.g. glasses, gas masks, gloves, etc.) if these are not available at Coatema. Safety data sheets (MSDS) shall be provided by the customer.

**As a matter of principle, the responsible Coatema employee must be consulted before potentially toxic substances are used.**

Appropriate protective clothing and personal safety equipment is mandatory to perform a trial in the R&D Centre. The customer is obligated to bring the required personal safety equipment with them. Coatema reserves the right to check before the trial if the customer is equipped with adequate personal safety equipment. If the appropriate equipment is missing, it is prohibited to participate in the trials. A claim against Coatema from this is excluded.

**For legal reasons, access to the technical centre is prohibited without suitable protective clothing (smock, protective shoes, gloves, protective goggles etc.)!**



Please also note our document „Safety confirmation for masses and substrates for processing in the Coatema R&D centre“.

### 10.) Liability

Coatema is not liable for objects and materials brought into the technical center by the customer, nor for the results obtained from the trials. The customer is responsible for personal items.

According to the statutory provisions, Coatema is only liable in cases of intent or gross negligence or in the event of negligent injury to life, body, and health. Liability for defects in the delivery items according to the Product Liability Act, which cause death, physical harm or health problems a damage privately used item, is also excluded. Any further liability is excluded regardless of the legal nature of the asserted claim. Insofar as Coatema's liability is limited by the above regulations, this also applies to its employees, workers, employees, representatives and vicarious agents.

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### 11.) Final determination

Place of performance and jurisdiction is Dormagen. German law applies to the exclusion of the UN purchase law.

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### 12.) Contact Person

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### 13.) Delivery address

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