# eurocol

# 305

## BETONDESIGN

Ready-to-use flexible, pasty finishing layer for creating a decorative concrete look on floors and walls in a layer thickness of approx. 1 mm (for two layers). The hardness is determined by the substrate. Cement-bound subfloors must be levelled in advance with 990 Europlan Direct and anhydrite floors with 924 Europlan Hybrid. Level walls with 658 Wandoforte.

## PRODUCT TYPING

| | |
|---|---|
| Base | Pasty mass with mineral pigments and elastifying plastics. |
| Color | 3053 signal grey, 3054 platium grey, 3055 telegrau 1, 3056 dusty grey, 30510 rust (special), 30511 ash, 30512 stone grey, 30513 greige, 30514 olive, 30515 slate and 30516 warm white. |
| Consistency | Pasty. |

- Very low emission
- Emicode EC 1PLUS
- Ready for use
- Easy to process
- De-energize
- Flexible
- Excellent adhesion
- Coat just app. 1 mm thick

## PROPERTIES

| | |
|---|---|
| Consumption | 400 – 500 g/m² per coat. |
| Flammability | Non-flammable. |
| Sensitive to frost | Yes. |
| Passableness | First coat after 3 hours and the second coat after 6 hours* |
| Specific weight | 1.65 – 1.9 kg/l. (depending on the colour). |

## APPLICATION

To create a decorative concrete look on floors and walls in a app. 1 mm layer.

## PROCESSING

| | |
|---|---|
| Layer thickness | App. 1 mm thick (two coats). |
| Storage | Store in a cool, frostproof place (between 5 – 25 °C). |
| Tools | Narrow spreading knife, Palette knife, Venetian trowel, Trowel, Masonic trowel, Eurocol 855 mixing rod, Eccentric (Rotex) sander + sanding disc K 150 and vacuum cleaner, Single-disc sander + mulithole sanding disc K150 combined with purple dust pad, Sanding block + sanding paper K180, Paint roller microfiber 9 |

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| | mm. |
|---|---|
| Drying | Fully hardened after 8 days.* |
| Drying | May be painted over after at least 12 hours |
| Shelf Life | 12 months in unopened packaging. |
| Cleaner | Water. |
| Remarks | The non-coated surface of Eurocol 305 BetonDesign cannot be used directly. During application on the prepared floor, use shoe covers for the shoes to avoid footprints.<br>For continuous surfaces use material from one batch or mix and homogenise appropriate quantities together.<br><br>Technical information and safety data sheets of other installation materials used must be observed!<br><br>Eurocol 305 BetonDesign is not suitable for levelling substrates or bridging cracks in substrates. The system cannot be used in direct wet areas.<br><br>Please note: mineral levelling compounds may under certain circumstances have a tendency to form cracks. Please refer to the reference document "RD_001_mineral levelling compounds".<br><br>EMICODE, for further information see www.emicode.com |

*The stated values are laboratory values which, given the large variation in climatological conditions, subfloor compositions and layer thicknesses, are only guideline values.*

Substrate:

- 305 BetonDesign must always be applied to a level surface. Cement composite subfloor to be levelled using 990 Europlan Direct and Calcium sulphate composite subfloor (anhydrite) to be levelled using 925 Europlan Alphy Direct. In special situations the 925 Europlan Alphy Direct can be advised on a cement composite subfloor. Wall to be levelled with 658 Wandoforte or 955 Wandostuc.
- We recommend that after drying you sand the levelling coat lightly with a sanding gauze, coarseness 100 or finer and to remove all dust using an industrial vacuum cleaner.
- 305 BetonDesign is not suited for concealing bases. The more level the base the better the end result will look.
- Any dilations that exist in the base must be respected and must always be followed in the 305 BetonDesign.
- Always consult our technical production information sheets first. When in doubt about the use of the product, please contact our Technical Help Desk.

Instruction manual:

**Step 1. The first coat:**

Thoroughly mix/stir the BetonDesign, mechanically, at a low speed, using a mixing rod that is approx. 1/3 the size of the Eurocol 855 mixing rod. Apply the first coat using a Venetian trowel. Use a narrow spreading knife along skirting etc. Apply the material to your wall or floor, depending on the desired texture, and make sure that you cover the entire surface. The coat helps determine the texture of the product, and therefore the end result (a larger trowel will give a smoother end result). Make sure that you don't rework the applied product too much, for the stainless steel trowel may leave black stains in the drying product. The product must be applied wet-on-wet. The prevents the product applied/dried earlier from tearing. Choose a corner in the wall or floor where you will start, and work from this corner in a diagonal, so that it is easy to continue wet-on-wet. This this will give the best results. After applying the first coat, leave to dry for approximately 3 hours at a room temperature of 20 $^0$C. Lower temperatures require a longer drying time.

**Step 2. Sanding the first coat:**

Lightly sand the first coat, preferably using an eccentric sander with a coarseness 150 sanding disc. Please note that the texture of the first coat determines the look of the end result. (Manual sanding is also possible, using a sanding block. Or use a sander with coarseness 180 sanding paper). Then make the total surface properly dustfree using an industrial vacuum cleaner.

**Step 3. The second coat:**

Properly mix/stir the material, as described in step 1. Next, the second coat can be applied. Apply the material depending on the desired texture. Make sure you apply a thin coat. Then allow this coat to dry completely. Allow a minimum drying time of 6 hours.

**Step 4. Sanding the second coat:**

After drying the second coat may be sanded lightly as described in step 2. The intensity of the sanding has a direct effect on the look of the end result. Next, make the base dustfree using an industrial vacuum cleaner. Prevent footprints in the floor by wearing shoe covers.

**Step 5. The finishing:**

Finally, finish BetonDesign using the BetonDesign coating system. When applied to a floor, always apply a coating of 300 BaseCoat first and let this dry. After a drying time of at least 2 hours, yet no more than 24 hours, the 310 FinishCoat must be applied. This has a drying time of at least 12 hours. Apply the system using a 9 mm microfiber paint roller. The coating must be applied evenly and without pressure across the entire surface. We advise to then roll out the coat in random directions. After 24 hours the finished floor is cured for 80%. It takes approximately 8 days for the finishing coat to become fully hardened and resistant. This is why it is important that within these 8 days the floor or wall does not get stained and/or damp, as this may lead to a damaged finishing.

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If used for projects where the load on the floor or wall is heavier, we advise to finish the BetonDesign with the 311 TopCoat laquer system straight away. In floor application always apply a layer of 301 BaseSealer first and let it dry completely. After a drying time of 2-4 hours, but no later than 48 hours, the top coat 311 TopCoat should be applied After 48 hours, the 301 BaseSealer layer must be sanded beforehand with sandpaper K180 and then vacuumed thoroughly. The drying time of the 311 TopCoat layer is at least 24 hours. Walls must be finished directly with 311 TopCoat without a layer of 301 BaseSealer. Mix this as described in the instructions for use on the package, and apply by means of an epoxy resin roller or a 13 mm Nylon roller for 2-part paint. The coating must be applied evenly and without pressure across the entire surface. We advise to then roll out the coat in random directions.  After 24 hours the finished floor is cured for 80%. Only after approx. 7 days the top coat is fully mechanically and chemically resistant. This is why it is important that within these 7 days the floor or wall does not get stained and/or damp, as this may lead to a damaged finishing.

The drying times mentioned here are based on circumstances as specified in the processing conditions.

Conditions for processing:
Desired room temperature : 18 - 23 °C
Temperature for material and subfloor : min. 15° – max. 20 °C
Relative humidity : 40 - 70%

Use:
300 BaseCoat : 100 – 120 g/m²
310 FinishCoat : approx. 50 g/m²
301 BaseSealer : 100-150 g/m²
311 Topcoat : 50 – 75 g/m²

Contains benzisothiazolinone. May produce an allergic reaction

Tips to maintain your BetonDesign floor:

- For the cleaning and maintaining of BetonDesign floors we advice the use of 312 Conditioner. The protective film ensures that less dirt will attach. In the event of regular use, the look of the floor will be preserved (no shiny effect). Never use chlorine or bleach!
- Provide a proper door mat at the entrance.
- Fit out chair legs with soft protection (e.g. cork or felt), and replace them in time if they get damaged.
- Rolling furniture should be fitted out with soft wheels.

Underfloor heating constructions:
BetonDesign can be used on underfloor heating constructions. The start-up protocol of the underfloor heating must first have been performed entirely in accordance with supplier guidelines. Switch off the heating one day before application; switch back on at least 72 hours after the final paint coat, in steps of 5 °C water temperature maximum per day. Make sure that the floor temperature never exceeds 29 °C.

## QUALITY AND GUARANTEE



## ENVIRONMENT AND HEALTH

| | |
|---|---|
| LEED | VOC 0 g/l, meets: IEQ Credit 4.1 |
| DGNB | VOC 0 %, quality level: 4 |
| Hazard Class | None. |
| Safety and environment | Safety data sheets of Forbo Eurocol products according to EEG-guideline 91/155. Keep out of reach of children. Do not eat, drink or smoke while processing the product. Only give completely empty containers for recycling. Bound material residues can be disposed of as household waste. |
| MSDS | Available on request. |
| Substances causing allergy | Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. |

## ITEM DATA

| Article | Definition | Packaging | EAN code |
|---|---|---|---|
| 305 | BetonDesign | 7 kg Bucket | |
| | 3053 signal grey | | 8710345 003032 |

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| 3054 platinum grey | 8710345 003049 |
| 3055 telegrau 1 | 8710345 003056 |
| 3056 dusty grey | 8701345 003063 |
| 30510 rust (special) | |
| 30511 ash | 8710345 305013 |
| 30512 stone grey | 8710345 305020 |
| 30513 greige | 8710345 305037 |
| 30514 olive | 8710345 305044 |
| 30515 slate | 8710345 305051 |
| 30516 warm white | 8710345 305068 |

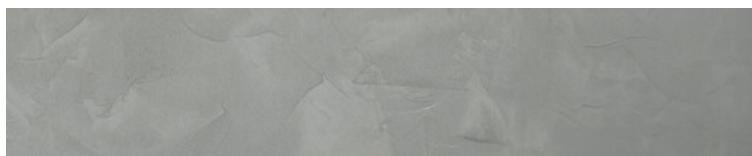The 305 BetonDesign is available in the colours:

3053 signal grey:
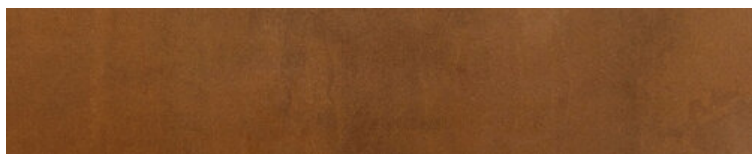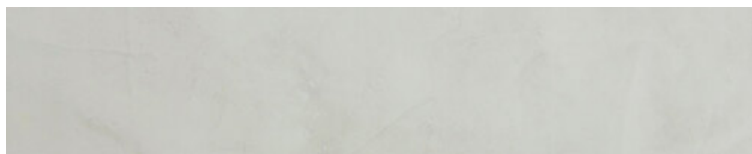


3054 platinum grey:
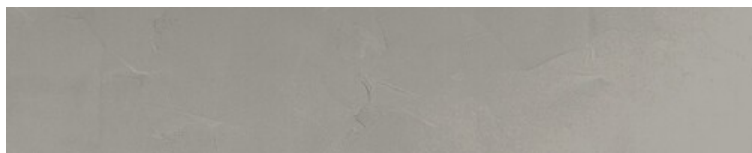


3055 telegrau 1:



3056 dusty grey:



30510 rust (special):



30511 ash:



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30512 stone grey:

30513 greige:

30514 olive:

30515 slate:

30516 warm white:

Any application method/ conditions other than specified in this Technical data sheet require explicit manufacturer's approval. In case of deviance in application method/ conditions liability by manufacturer cannot be guaranteed. This technical data sheet contains advice on handling and application of the product, based on experience and tests run by the manufacturer in laboratory and practical work. The information supplied by the manufacturer are non-binding and cannot be used as a basis for establishing the manufacturers liability for any damages caused. The values stated in this technical data sheet were measured under standard laboratory conditions. As application conditions outside the laboratory vary strongly this technical data sheet must be considered a guide only. Therefore the manufacturer does not take liability for damages caused by the customer's utilization of the technical data sheet content. As use, processing- and storage conditions on site are beyond manufacturers influence, a warranty for the processing result cannot be given. This also includes the infringement of any rights for the protection of third parties. Sufficient testing areas are to be provided before final application. Relevant national norms and regulations of the industry are to be observed. Outside Germany valid, relevant national norms and regulations, have to be taken into account and to be followed by the customer. It is the responsibility of the customer to check product suitability for the intended procedure and purposes prior to use.

This Technical Information supersedes all previously issued application data sheets and product information are no longer valid!

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