

Velvet effect technique Blackened steel

Design technique for creating a “blackened steel” effect on raw steel using Creativ Tenero 84



The figure shows an implementation variant of the creative technique and should give an impression of the surface effect which can be achieved. There is no guarantee that the exact color will be reproduced.

Substrate: Smoothly filled and primed

Prime coat: Superlux ELF 3000, color shade 99.00.54

Base filling: Creativ Tenero 84, color shade 42.CM.15

Intermediate filling and texturing: Creativ Tenero 84, color shade 42.CM.15

Final filling and texturing: Creativ Tenero 84, color shade 99.CM.12

Glaze application and squeegeeing: Creativ Viviato 72, in color shade 18.CL.09

Field of application

For high-quality designs in the natural appearance of raw steel, preferably on completed individual surfaces in interior areas. For designing representative wall surfaces such as exclusive wall mirrors and decorative surfaces in e.g., hotel facilities, spa and wellness areas, restaurants, offices, shops and even in upscale residential areas.

Characteristics

Modern design technique to shape raw steel into a natural appearance as “blackened steel”. By combining the velvet effect filler material with fine metallic effect pigments and a subsequent coating with a matt emulsion glaze in appropriately matched color shades, the characteristic appearance of this special steel surface is achieved with black blue scale and curing to a hard patina. The stylish surface, that is iridescent from matt to silk gloss, has the typical natural coloring.

Implementation

- Substrate condition** The substrate must be smooth, solid, dry, clean, load-bearing, and depending on the substrate condition, smoothly filled with e.g. Briplast Mineral Hand Applying Light Filler ELF 1886. The filling must be performed in accordance with the surface quality Q4 for increased surface requirements. Prime the sanded, dust-free surfaces with Lacryl Deep Penetrating Primer ELF 595.
- Prime coat** Apply Superlux ELF 3000, in a color shade corresponding to the subsequent formation of raw steel (“blackened steel”), using the Microfiber Paint Roller 1221 with minimal structure. We recommend using color shade 99.00.54 to do so.
- Masking partial areas** Distribution and processing in partial areas simplifies the implementation of the creative technique and enables implementation on larger contiguous surfaces. For details refer to the “Notes”.
- Base filling** To create the perfect steel surface, we recommend preferably implementing the creative technique vertically. All subsequent work steps must be applied and processed consistently in the same direction. Apply Creativ Tenero 84 in the color shade 42.CM.15 after drying the prime coat, in a sufficient layer thickness (not in thin coats), using the Venetian Trowel 1764 in individual trowel strokes. The individual strokes should vary in length and be performed at random. The final structure should appear uneven and with randomly created patterns. However, the surfaces must not be processed with overly arbitrary placement. To create a realistic appearance of a rolled steel surface within the base filling, establish specific “accents” by applying thicker filled areas with untouched areas around (unfilled areas). These “accents” (replica of so-called roller damage) should be dosed out and coordinated with the overall design of the surface. When creating these “accents”, ensure that the areas left empty remain so and that they are not covered over when “stripping off”. Also refer to the notes on “Creating proper accents”

- Intermediate sanding** After sufficient drying, the textured surfaces should be cross-sanded, including dust extraction, e.g. with the Festool Rotex RO 150 FEQ-Plus 3247 (80 grain size) so that rough uneven areas are smoothed. After an area of approx. 2 m², the abrasive discs must be replaced regularly. Then remove the rest of the sanding dust.
- Intermediate filling and texturing** After removing dust from the surfaces, there is a second application of filler with Creativ Tenero 84 in color shade 42.CM.15 with the Venetian Trowel 1764 as described for base filling, however it is over the entire surface, without the formation of further “accents” and flaws. In this case, the filler material is brought back to almost “zero” in the raised area. Immediately after, roll the entire area with the clean Foamed Texturing Roller 1104, in 25 cm width, using criss-crossing strokes, so that the areas that still have damp “modelable” material establish a fine, peaky texture. Reroll the surfaces multiple times after a short flash-off time, so that a fine structure develops in these areas. This reworking (texturing) significantly contributes to the desired “mill scale look”.
- Abrading** After drying the surfaces sufficiently, use the edge of the Venetian Trowel 1764 to abrade, applying gentle pressure, so that any significant unevenness and peaked structures are removed. These surfaces must not be sanded.
- Final filling and texturing** After abrading the surfaces, the final filling takes place, with Creativ Tenero 84 in contrasting shade 99.CM.12 using the Venetian Trowel 1764 as described for the intermediate filling. This filling is also implemented across the entire surface without forming further “accents” and flaws and once again brings the raised area back down to “zero”. Due to the thin-layer implementation in the necessary contrast color shade and the resulting overlapping areas, ensure particularly careful implementation of the filling. The individual filling strokes should vary in length and be performed at random. The final structure should appear uneven and with randomly created patterns. However, the surfaces must not be processed with overly arbitrary placement. Immediately after, reroll the entire area with the clean Foamed Texturing Roller 1104, in 25 cm width, using criss-crossing strokes, so that the areas that still have damp “modelable” material still establish a finer texture. After a short flash-off time, reroll the surfaces once again, so that these areas have a particularly fine finish.
- Abrading** After sufficient drying, abrade the surfaces with the edge of the Venetian Trowel 1764 applying gentle pressure, so that any significant unevenness and peaked structures are removed. These surfaces must not be sanded. If there are very significant surface defects (roughness) due to the Foamed Texturing Roller 1104 being applied too soon, then we recommend sanding the surfaces before applying the glaze, as described for the intermediate sanding.

Implementation

Glaze application and squeegeeing

Apply Creativ Lucento 72 in color shade 18.CL.09 using the Microfiber Paint Roller 1221 and distribute and smooth uniformly in short, individual criss-crossing strokes. Immediately after application, squeegee the surfaces with the wide edge of the Effect Trowel 1155, applying slight pressure. Place the trowel flat on the surfaces to do so, and draw the edge of the trowel across the surfaces in long strokes that vary in length. Deliberately vary the individual squeegee strokes in a "random offset" appearance to create a harmonious overall appearance. When doing so, ensure that the emulsion glaze is not brought back to "zero". Resulting material build-ups as part of the squeegeeing process are a sign that too much glaze has been applied and that it needs to be distributed and smoothed uniformly. After each "squeegee stroke", remove the trowel from the surface and place it on the new adjacent area with an overlap. If necessary, repeatedly clean the trowel edge while working. Squeegee from top to bottom and without leaving any gaps, preferably using a vertical alignment during processing.

Notes

Strips of masking tape

Just in case, attach strips of masking tape directly before each work step and remove them immediately afterwards.

Implementation on large and contiguous surfaces

The individual steps should always be carried out by one person, as every user has a unique "style". Large areas must be implemented by a team of multiple users. In this case, the work should be carried out together at intervals apart and each user should carry out their own relevant implementation step. A different approach may be required for extremely large areas, e.g. with room heights > 2.50 m, with several users carrying out an implementation step together. The implementation must be coordinated between the users in this case.

Implementation in partial areas

After the prime coat is complete, the creative technique can be used to achieve the realistic look of well-composed, unique metal panels, even separated into individual partial surfaces. It is important to ensure an authentic division in size and shape for the implementation of partial areas, e.g. as a representation of individual steel plates. Calculation in accordance with the "golden ratio", simplified in a ratio of 5:8, is suitable for a harmonious surface design. Carefully draw the division into areas with a pencil after the prime coat and mask the individual joints to the partial areas with Tesaflex Fine Line Tape 3008 at 3 mm or 6 mm. Carefully remove the contouring tapes after the final filling has dried, but before applying the glaze. Through masking, this procedure can also be integrated into the creative technique for creative accents such as lettering, ornaments or free forms.

Create accents correctly “Accents” within the base filling are created through thick-layered filled areas with untouched areas around. During implementation of the base filling, place the “accents” by applying multiple overlapping bead-shaped balls of material with sufficient surrounding space to the adjacent filled area, and then integrate the material into the overall surface base filling by “stripping off” the material. To do so, smooth out the “material bead” using the Venetian Trowel 1764 in such a way that a material edge remains on the remaining free space and the excess material is drawn in the other direction to thicken the surface base filling. The result is the formation of irregular edges with “frayed” areas.

Assessment of test areas The described implementation of this technique is a tried-and-tested variant and can be modified and enhanced depending on the creativity of the user. The overall appearance of a creative technique is determined by the color shade selection and combination, the absorption behavior of the substrate, the respective implementation of the technique, and the individual style of the user. We recommend performing an assessment of the overall appearance beforehand, based on test areas.

Creative technique video brillux.com/applications/interior-design/creative-techniques



Further information Read and follow the instructions in the Data Sheets of the products to be used.

List of materials and tools

• Smoothing and priming the substrate

Briplast Mineral Hand Applying Light Filler ELF 1886	approx. 1.0 l/m ²
Stainless Steel Trowel 1150	
Lacryl Deep Penetrating Primer ELF 595	approx. 150–200 ml/m ²
Block Brush Professional 1172	

• Prime coat

Superlux ELF 3000, color shade 99.00.54	approx. 130–150 ml/m ²
Microfiber Paint Roller 1221	(per layer)

• Base filling

Creativ Tenero 84, in color shade 42.CM.15	approx. 450 g/m ²
Venetian Trowel 1764	
Bucket Trowel 3782	

• Intermediate sanding

Festool Rotex RO 150 FEQ-Plus 3247	
STF Abrasive Discs RO/ETS 150 grain 1410, grain size 80	approx. 0.25 disc/m ²

• Intermediate filling and texturing

Creativ Tenero 84, in color shade 42.CM.15	approx. 150 g/m ²
Venetian Trowel 1764	
Bucket Trowel 3782	
Foamed Texturing Roller 1104, in 25 cm width	

• Abrading

Venetian Trowel 1764	
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• Final filling and texturing

Creativ Tenero 84, in contrasting color shade 99.CM.12	approx. 100 g/m ²
Venetian Trowel 1764	
Bucket Trowel 3782	
Foamed Texturing Roller 1104, in 25 cm width	

• Abrading

Venetian Trowel 1764	
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Alternative - intermediate sanding

STF Abrasive Discs RO/ETS 150 grain 1410, grain size 100	approx. 0.25 disc/m ²
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• Glaze application and squeegeeing

Creativ Viviato 72 in color shade 18.CL.09	approx. 130 ml/m ²
Microfiber Paint Roller 1221	
Effect Trowel 1155	

Remark

This information comes from many years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

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Brillux
Weseler Straße 401
48163 Münster
GERMANY
Phone +49 251 7188-0
Fax +49 251 7188-105
info@brillux.de
www.brillux.com