

Metallic Series of Powder Finishes Product Overview 11/2008

Over the last decade, metallic colours have been increasingly successful for architectural application both for private end customers as well as for commercial objects. This trend was and still is supported by the powder industry by offering more choices, different powder and pigment qualities and additional textures. As part of the Schüco System Finish approach of reliable and tested finishes for Schüco products, Schüco has introduced metallic surface selections:

MetallicLine combines classical metallic effects (Aluminium-like pigmentation) with different base colours and textures based on standard façade powder quality. Base colouration was inspired by classical masters such as RAL 9006, 9007 and DB 703 but altered for a new optic. New optical impact comes from the texture, ranging from smooth to textured, and the glossiness value. Additional pigmentation systems extend the colour range to building bronze and gold. This product series contain 16 different surfaces and is intended for usage in middle and northern Europe fulfilling also the mortar test requirements of GSB. Therefore, **MetallicLine** has the limited stability of façade quality towards emissions from industry and traffic as well as against UV radiation. The glossiness of these products is mostly matt.

Picture 1: Selection of classical **MetallicLine** surfaces (left) and the newly added shades Gold and Building Bronze (right) (Schüco)



MetallicLine Plus are inspired by oxidation colours of metals such as steel but also more exotic ones like Niobium and Hafnium. These colours are in nature the combination of the retaining metallic shine combined with the colouration from produced metallic oxides. The powder reproduction of these 8 colours was done with two textures: Smooth in line with a more classical approach but also in fine texture to generate an additional optical impact. Due to the special high end pigmentations required and their intended worldwide usage, this product line is only offered in high durable powder quality fulfilling also mortar test requirements of the GSB. Also an

increase of stability against emissions is noted but must be checked object wise. The glossiness level is matt except for Copper, which is semi glossy.

Picture 2: Selection of **MetallicLine Plus** surfaces in fine texture (left) and comparison of the colour Copper in fine texture (top) and smooth (bottom) (Schüco)



CosmoLine consists as a building block set of 8 base colours which can be obtained in matt (X20 form) or matt metallic finish (X25 form; X stands for the base colour 1 to 8). These matt surfaces can be combined for objects (e.g. residential apartments, office buildings) to create interesting but still classical & fitting appearances. These surfaces are available in façade powder quality intended for orders in middle and northern Europe without a high emission level. The mortar stability of the applied pigmentation is fulfilled according to GSB testing requirements.

Picture 3: Comparison **CosmoLine** 620 (smooth, top) and 625 (fine textured, bottom) (Schüco)



Picture 4: CosmoLine surface overview X25 (X = colour, 25 = fine textured) (Schüco)



MetallicEffects offers additional 16 surfaces with a wide range of textures, effects and colours in a classical surface range. These matt surfaces are available in façade powder quality intended for orders in middle and northern Europe without a high emission level. The mortar stability of the applied pigmentation is fulfilled according to GSB testing requirements. Selected colours are also available with a dirt repelling additive to ease manual cleaning (DuraClean; compare current Schüco colour booklet).

Picture 5: Makro impression of two **MetallicEffect** surfaces (illumination optimized for texture only!) (Schüco)



Picture 6: Profile with **MetallicEffect** China-Black (Schüco)

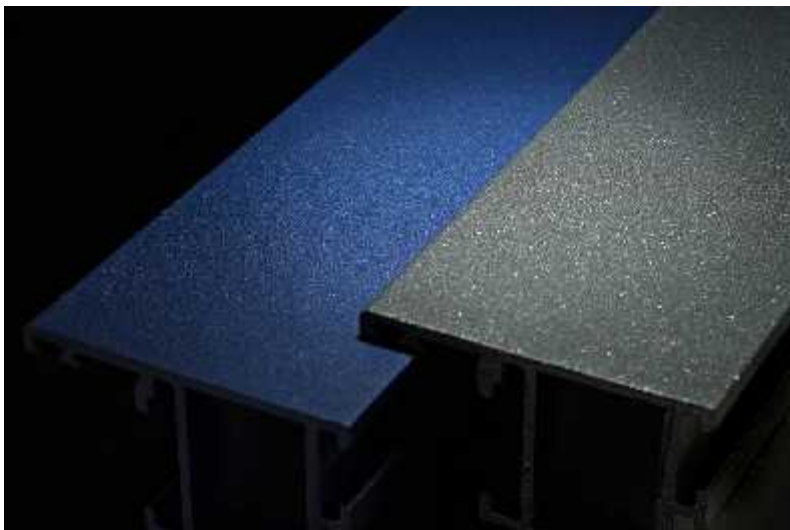


FineStructure represents by name a collection of available fine structured surface (only a small selection is shown in the current Schüco colour booklet) consisting of standard colours and metallic shades.

Generally, these colours as well as the fine textured surfaces within the Schüco metallic selections **MetalicLine**, **Metallicline Plus**, **CosmoLine** and **MetallicEffect** exhibit an elegant fine texture produced uniformly by a repellent reaction of two components within the powder during melting. Despite their optical appearance, fine textured surfaces normally do not fixate the dirt (from emissions, traffic or production) stronger than smooth surfaces due to chemical additives within the powder. Manual cleaning is still required but with the same frequency as for smooth surfaces.

FineStructure products are produced in standard façade powder quality having the additional benefit to cover slight defects of the material below (important e.g. for coated material for doors or the finish of fabricated steel parts).

Picture 7: Profiles finished with **FineStructure** surfaces (Schüco)



For protection against filiform corrosion, which is an electrochemical process between the Aluminium and Chloride destroying the Aluminium and causing optical disturbance, Schüco System Finish offer the above finishes with pre-anodising. This process offers full protection.

For information, please contact Schüco.

For unavoidable technical reasons, the colours shown in this digital information vary from the original colours when applied to Aluminium.

PM Finish