



AC – Architectural Colours

Presentation and explanation

AC – Architectural Colours



AC – Architectural Colours from StoDesign is a new range of 300 selected colour shades for a timeless, architecture- and material-related colour scheme of buildings. The AC Collection was specifically developed for facades and supplements the StoColor System, especially in the colour shade range of yellow, orange and red. The carefully coordinated colour worlds and formulations are very functional in providing a technical enhancement to the StoColor System. Especially when mineral coating and rendering systems are being applied, the selection of colour shades in these mineral colour shade range is more simple and more targeted than with the organically based StoColor System. The AC Collection therefore follows the Sto AG tradition of mineral colour fans (grades 12 and 14) and is the ideal supplement to the proven StoColor System with its 800 colour shades.



StoColor System

This system is based on human visual perception. The six colour perception areas, consisting of the primary and secondary colours yellow, red, blue as well as orange, violet and green, form the starting basis of the StoColor System. Through the subdivision of these six colour areas into four colour shade levels each, a 24-part colour wheel is created, and this constitutes the actual basis of the StoColor System.



From each of these 24 basic colour shades, and based on the principle of the same-colour triangle, five colour rows can be mixed in each grouping. The individual shades achieved in each row also have the same visual grades. As a result the colour rows run and develop the same way across all colour shade ranges, which, in turn, is the prerequisite for the reliable selection of colour shades and colour concepts.

In total, the StoColor System comprises 800 shades, of which 772 are systematically assigned colour shades and 28 are greyscale shades which are in turn subdivided into three grey rows.

DC – DesignerCollection 10/11

The DC – DesignerCollection from StoDesign, issued every two years, showcases current colour trends and surfaces. The 'Designer Collection 10/11' comprises 38 colour shades and six matched surfaces.

These reflect the trends analysed by the designers at the international StoDesign Studios during their daily work with architects, and also through multi-sector studies and trend publications.

With the DesignerCollection, Sto AG is positioning its design and trend-oriented stance. The target group for these fans are trend-oriented architects, interior designers and applicators.

We can therefore call upon a range of more than 1,100 colour shades when advising our customers.

Development

Especially when selecting and composing the colour shades for the AC Collection, we have looked more at European colour traditions than at short-term trends.

Coloured earth pigments (earth colours) constitute the classic basis for the selected colour shades. Together with their brightened and shaded hues, these enable credible, durably harmonious colour concepts to be developed for buildings. The focal point of this collection is a set of natural colours typical of their region.

Key features include:

- 300 natural colour shades
- consistently colourful harmony with shades that do not have excessively bright components - essentially predestined for application on facades
- integration of 6 shades of white including old white 11 and old white 15
- three natural grey rows with 21 carefully matched shades
- frequently ordered, fast-selling colour schemes from previous years were taken into account, which explains why the areas of yellow, orange and red are more extensively represented than the other colour areas
- the sanded surface of the colour leaves imbues them with a natural finish that appeals to the senses



Properties



The technical properties of the AC Collection are carefully matched to suit the functionalities of mineral-oriented product systems. All colour shades can, of course, be produced in our organic product systems.

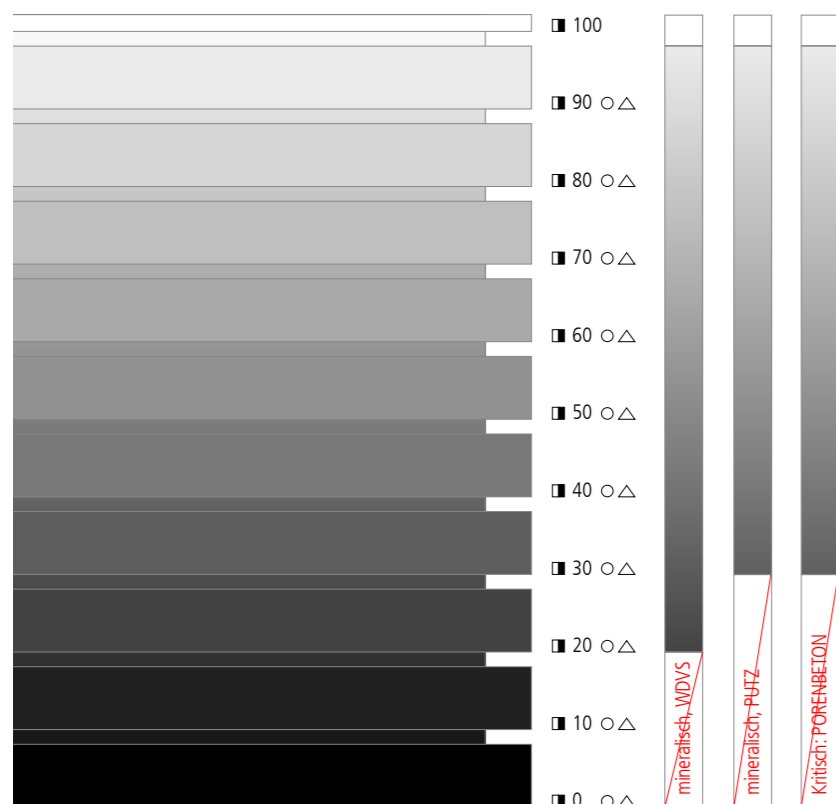
- all 300 colour shades can be supplied as Lotusan and silicone resin facade paints
- as paint coatings, all 300 colour shades exhibit the highest possible colour permanence - category A1 of the colour permanence code - because very good light-resistant pigments and binding agents are employed in their production. The colour permanence code is listed in the BFS data sheet no. 26 „Farbveränderungen von Beschichtungen im Außenbereich“ [Colour changes of coatings on exteriors] issued by the German association



for the protection of building paints and design integrity - the ‚Hauptverband Farbe Gestaltung Bautenschutz‘. Their publication arranges colours in accordance with their potential age-related colour changes.

The colour permanence code comprises groups (1, 2, 3) and classes (A, B, C). Each group classifies colouring pigments with regard to their light resistance. Each class designates the coating material based on the binding agent. A colour permanence code can be assigned to every colour shade of a colour fan, ranging from A1 to C3, with A1 constituting the highest level of colour permanence.

- The colour fan does of course lend itself superbly to projects in the ‚monument protection sector‘ (e.g. listed buildings etc.).



Lightness values and suitability for use with EWI systems

- a high proportion of colour shades, due to the lightness values selected is ideally suited for use with mineral and organic external wall insulation systems
- the lightness value defines the lightness of a colour shade (see graphic)

As before, the following lightness value limits still apply:

- Colour shade 20 L* and lighter: StoTherm Mineral/Vario/ StoClassic System
- Colour shade 15 L* and lighter: StoTherm Classic with EPS insulation
- Colour shade darker than 15 L*: StoTherm Classic with special IPMT approval
- Colour shade 30 L* and lighter: mineral, tinted renders coatings on porous concrete

Designations

The standard Sto range of designations and/or symbols used for many years was also employed in this case:

16006 The five-digit number:
The ‚16‘ is rooted in the same tradition as Sto grade 12 and 14 colour fans. The 300 colour shades are consecutively numbered from 16000 to 16299.

■ 57 The black and white square:
The number indicates the lightness value and provides important indications about the feasibility of creating the colour shade.

C3 The colour class:
Definition of the colour shade surcharge – refer to the price list.

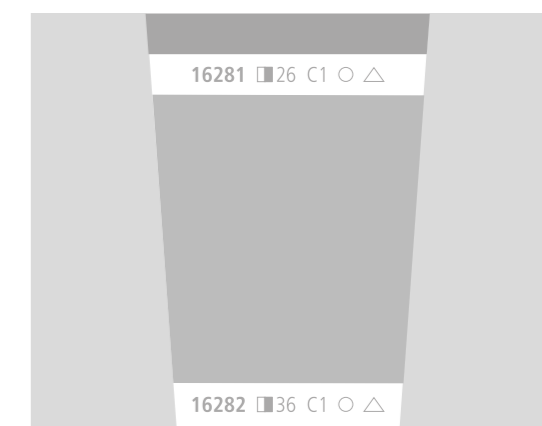
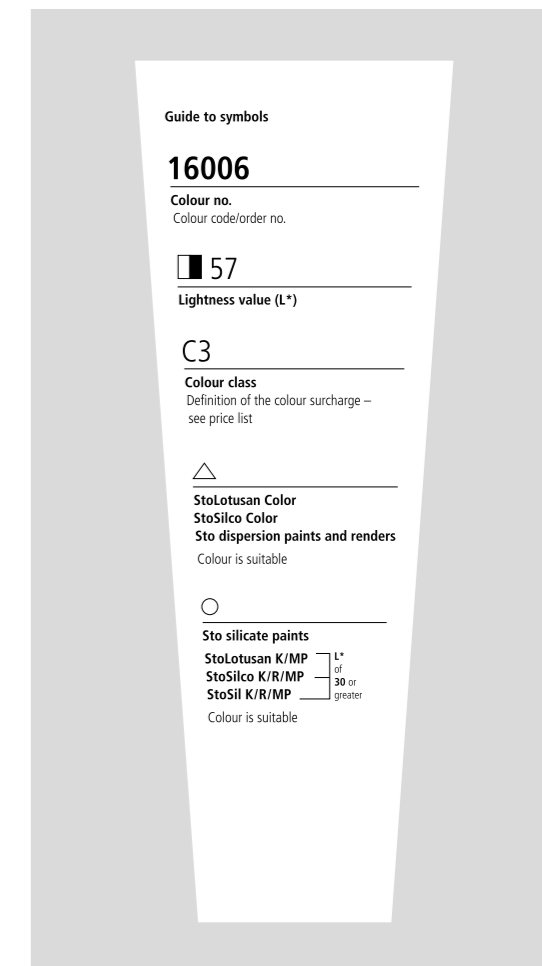
△ The triangle:
designates colour shades that can be produced as Lotusan Color, StoSilco Color and Sto dispersion paints and renders. All colour shades in the AC fan share this designation and can be created in these products.

○ The circle:
This designation has a dual function!
A: it designates colour shades that can be created as silicate paint.
B: it designates colour shades that can be created as tinted render in the following products: StoLotusan K/MP, StoSilco K/R/MP and StoSil K/R/MP.
Caution: Here, the standard restriction applies that the colour shades must not have a lightness value of less than 30.

Here is an example from the colour fan to clarify the designation with the circle symbol:

16281 This colour shade with an L* of 26 can be produced as a silicate paint.
Due to the fact that the L* is less than 30 in this case, the colour shade cannot be produced as the following renders: StoLotusan K/MP, StoSilco K/R/MP and StoSil K/R/MP

16282 This colour shade with an L* of 36 can be produced as a silicate paint and also as mineral renders





StoDesign

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