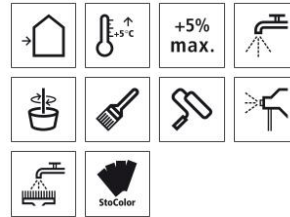


# Technical Data Sheet

## StoColor Dryonic® S

Facade paint with Dryonic® Technology and additional SunBlock Technology for maximum colour shade variety and stability, without biocide film protection



### Characteristics

#### Area of application

- exterior
- On mineral and organic substrates
- on EWIS
- on concrete
- on StoDeco facade elements
- on fibre cement facades
- on almost all conventional construction substrates
- on sloping facade surfaces not sensitive to humidity between 45° and 90°
- on trapezoidal profiled sheet facades (e.g. coated using the coil coating method)
- on galvanised metal substrates (e.g. rainwater pipes)
- on high pressure laminate facades
- also suitable for roofs with an inclination > 3°, e.g. cement bricks, clay bricks, fibre cement (asbestos-free), sheet metal coverings

#### Properties

- biomimetic principle for fastest drying after rain or dew formation
- option available with X-black Technology: heat shield against solar heating
- maximum colour shade variety: all NCS and RAL colour shades including the RAL 2000, 3000, and 5000 ranges, and 4010
- maximum colour stability
- minimum extender material breakdown (not easily scuffed)
- high level of resistance to mechanical stress
- texture-retaining
- pure acrylate binding agent
- CO<sub>2</sub> diffusion: class C1 in accordance with EN 1062-1
- very good hiding power
- water vapour permeable
- alkali-resistant
- very good adhesion to all substrates commonly used in construction
- without biocide film protection

#### Appearance

- matt (G3) in accordance with EN 1062-1
- depending on the angle, the surface seems silk matt

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### Information/notes

- project-specific consultation is necessary for EWIS with inclined surfaces
- not all colour shades are possible with X-black Technology, TSR value must be considered on a project-specific basis

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.2 - 1.4 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783	0.50 m	V2 medium
Water permeability rate w	EN 1062-1	< 0.05 kg/(m <sup>2</sup> h <sup>0.5</sup> )	W3 low
Water vapour diffusion-equivalent air layer thickness $\mu$	EN ISO 7783	2,520	
Gloss	EN 1062-1	G3 - Matt	G3
Dry layer thickness	EN 1062-1	150 $\mu$ m	E3 > 100; $\leq$ 200
Grain size	EN 1062-1	< 100 $\mu$ m	
Carbon dioxide permeability	EN 1062-6	< 3 g/m <sup>2</sup> .d	C1

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

### Substrate

#### Requirements

The substrate must be firm, dry, clean, load-bearing, and free from sinter layers, efflorescence and release agents. Damp or not fully cured substrates can lead to defects in the subsequent coatings, e.g. bubble formation, cracks.

#### Preparations

Check whether existing coatings are load-bearing. Remove any non load-bearing or structurally weak coatings.  
 Facade surfaces affected by an algae and fungal attack must be carefully cleaned before overcoating. Depending on the level of infestation, disinfect the dry surfaces 1 - 2 times with StoPrim Fungal.

### Application

#### Application temperature

Lowest temperature of substrate and air: +5 °C  
 Highest temperature of substrate and air: +30 °C

The substrate temperature must be above the dew point temperature. The

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recommended difference is +3 °C.

### Material preparation

Usage as an intermediate coat: dilute with max. 5 % water.  
 Usage as a finish: dilute with max. 5 % water.  
 For application by machine: undiluted.

Dilute with as little water as possible to achieve application consistency. Stir the material well before application. Use only very little water to dilute intensely tinted material. Too much dilution impairs the properties of the material, e.g. with regard to application, hiding power, and colour shade intensity.

### Consumption

Type of application	Approx. consumption	
per paint coat	0.12 - 0.15	l/m <sup>2</sup>
for 2 application cycles	0.24 - 0.30	l/m <sup>2</sup>

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

### Coating build-up

**Primer:**  
 Depending on the type and condition of the substrate, it may be necessary to apply consolidating, absorbency-regulating prime coatings.  
 If using on a mineral substrate, an absorbency-equalising and adhesion-promoting primer is required.

**Note:**  
 If the primer is omitted, this can impair the application properties and the product's appearance. products: e.g. StoPrim Micro, StoPrim Sol GT

**Intermediate coat:**  
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**Finish:**  
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Depending on the substrate and colour shades, further paint coats are necessary.

The technical data are based on a double paint coat.

### Application

by paint brush, by roller, by airless sprayer

Low-overspray application with an airless sprayer:

Low material application without further reworking using a roller:

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FineFinish nozzle 515  
 spray pressure: approx. 100–120 bar  
 Use a Metex Reuse or a bucket sieve.

Application of higher material quantities with reworking by roller afterwards:  
 nozzle size: 0.017–0.021 inch  
 spray pressure: approx. 100–130 bar

Airless sprayer:  
 inoSPRAY A 5000 or a comparable device  
 Select the airless sprayer according to the size of the project.

If necessary create a sample surface area and approve it.

Recommendation: Use a nozzle extension and a flexible whip hose.

Note:  
 - The nozzle and pressure information are recommendations. The settings and specifications to achieve an optimum result may change depending on the machine type and project conditions. Additional information can be obtained from the machine manufacturer.

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<b>Drying, curing, ready for next coat</b>	<p>Higher humidity, lower temperatures, and low air exchange prolong the curing and drying times.</p> <p>During unfavourable weather conditions, apply suitable protective measures (e.g. protection against rain) to the work in progress and freshly completed facades.</p> <p>At +20 °C temperature (air and substrate) and 65 % relative air humidity: over-coatable after approx. 24 hours.</p>
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<b>Cleaning the tools</b>	Clean tools with water immediately after use.
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<b>Delivery</b>
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<b>Colour shade</b>	<p>white, tintable in accordance with the StoColor System, all commonly available colour fans such as RAL, NCS</p> <p>The special formulation with NIR technology can lead to slight differences in colour shade compared to standard tinting. Only use material with the same batch number on continuous or directly adjacent areas.</p> <p>Tinted material:          Before application, check that the material corresponds to the colour shade ordered. Slight colour shade deviations compared with previous deliveries are</p>
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possible. Only use deliveries with the same batch number on one surface. Mix different batches before application.

### Colour stability:

The effects of weather, moisture, UV radiation, and deposits can alter the surface of the coating. Changes in colour shade are possible. The change process is dynamic and influenced by climatic conditions and exposure. National regulations, data sheets etc. apply.

### Colour accuracy:

Different weather and project conditions influence colour shade accuracy and colour shade uniformity. Avoid the following conditions (a - d) in every case:

- a) uneven absorbency of the substrate
- b) different levels of substrate moisture over an area
- c) partly very different alkalinity and/or substances in the substrate
- d) direct sunlight with sharp, clear shadows on a still-damp coating

### Washout of processing aids:

If water such as condensation, fog, or rain comes into contact with not fully dry coatings, processing aids may be released from the coating and build up on the surface. Whether the effect is strongly visible or not depends on the intensity of the colour shade. This does not influence the product quality. The effects disappear when the surface is exposed to further weathering.

<b>Storage</b>	
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<b>Storage conditions</b>	Store in tightly sealed original container in cool and frost-free conditions. Protect from direct sunlight.
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<b>Storage life</b>	<p>Provided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container.</p> <p>Batch number explanation:            Number 1 = the last number of year, numbers 2 + 3 = a calendar week            example: 6450013223 – storage life until week 45 of 2026</p> <p>Use promptly after opening. Contamination, e.g. due to a soiled tool, can shorten the shelf-life.</p>
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<b>Identification</b>	
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<b>Product group</b>	Facade paint
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**Composition**

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings

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Polymer dispersion  
 titanium dioxide  
 mineral extenders  
 Water  
 esters  
 glycols  
 alcohols  
 Hydrophobic agents  
 anti-foaming agents  
 dispersing agent  
 Thickener  
 storage protection agent based on CIT/MIT 3:1

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### Safety

Observe the Safety Data Sheet!  
 Safety instructions refer to the ready-to-use, unapplied product.

### EUH210

Safety data sheet available on request.

### EUH208

Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1). May produce an allergic reaction.

These are preservatives.  
 Avoid contact with the skin and the eyes.

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### Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use. Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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