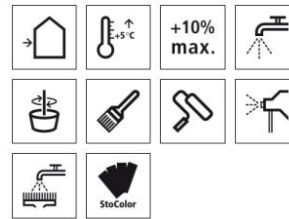


# Technical Data Sheet

## StoColor Dryonic G

Facade paint with Dryonic Technology, biomimetic principle for dry facades against algae and fungal attacks, with encapsulated film protection



### Characteristics

#### Area of application

- exterior
- on mineral and organic substrates
- onto almost all conventional construction substrates
- on sloping substrates not sensitive to humidity up to a 45° inclination, project-specific consultation is necessary in the case of facade insulation systems
- on concrete
- on trapezoidal profiled sheet facades (e.g. coated using the coil coating method)
- on galvanised metal substrates (e.g. rainwater pipes)
- on fibre cement facades
- on high pressure laminate facades
- wood dimensionally stable to a limited extent (e.g. roof soffits)

#### Properties

- biomimetic principle for fastest drying after rain or dew formation
- highest whiteness
- highest colour shade variety and 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
- with encapsulated film protection

#### Appearance

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

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### 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                   | 0.73 - 0.84 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                   | 5,200 - 6,000                                |                      |
| Gloss   | EN 1062-1                     | Matt   | G3                   |
| Dry layer thickness   | EN 1062-1                     | 140 $\mu$ 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 following coatings, e.g. bubble formation, cracks.

#### Preparations

Check whether existing coatings are load-bearing. Remove any non load-bearing or structurally weak coatings.

### Application

#### Application temperature

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

#### Material preparation

Usage as an intermediate coat: dilute with max. 10 % water.  
Usage as a finish: dilute with max. 5 % water.

Dilute with as little water as possible to achieve application consistency. Stir the material well before application. If applying the material by machine or pump, adjust the application consistency accordingly. 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 coats         | 0.24 - 0.30         | l/m <sup>2</sup> |

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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

Substrate coating:  
Depending on the type and condition of the substrate.

Intermediate coat:  
StoColor Dryonic® G

Finish:  
StoColor Dryonic® G

Depending on the substrate and colour shades, further paint coats are necessary.

### 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:  
FineFinish nozzles (e.g. TradeTrip 3 nozzle 412)  
Pressure: 150 - 200 bar  
Use a Metex Reuse or a bucket sieve.

Application of higher material quantities with reworking by roller afterwards:  
Nozzle: 316 - 319 DD  
Pressure: approx. 120 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.

### Drying, curing, ready for next coat

Higher humidity, lower temperatures, and low air exchange prolong the curing and drying times.

During unfavourable weather conditions it is very important to apply suitable protective measures (e.g. protection against rain) to the work in progress and freshly completed facades.

At +20 °C temperature (air and substrate) and 65 % relative air humidity: over-coatable after approx. 24 hours.

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**Cleaning the tools** Clean tools with water immediately after use.

### Delivery

**Colour shade** White, tintable in accordance with the StoColor System

**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.

**Tintable** Possible to tint with StoColor Tint or with max. 1 % StoTint Aqua.

### Storage

**Storage conditions** Store tightly sealed in frost-free conditions. Protect from heat and direct sunlight.

**Storage life** The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life date can be deduced from the batch number of the container.

**Batch number explanation:**

Number 1 = the last number of year, numbers 2 + 3 = a calendar week  
i.e.: 9450013223 – storage life until week 45 of the year 2019

### Certificates/approvals

ETA-09/0288

StoTherm Classic® 5 MW/MW-L (StoArmat Classic plus)  
European Technical Approval

### Identification

**Product group** Facade paint

### Composition

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In accordance with the VdL directive (German Paint and Printing Ink Association)  
 on coating materials for buildings  
 polymer dispersion  
 titanium dioxide  
 mineral extenders  
 silicate extenders  
 water  
 esters  
 glycols  
 alcohols  
 surface additive  
 hydrophobic agents  
 anti-foaming agents  
 dispersing agent  
 thickener  
 coating protection agent based on isoproturone/terbutryn  
 coating protection agent based on 3-Iodo-2-propynyl butylcarbamate (IPBC)  
 storage protection agent based on CIT/MIT 3:1

#### Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.  
 Observe the Safety Data Sheet!  
 Safety instructions refer to the ready-to-use, unapplied product.

Harmful to aquatic life with long lasting effects. Avoid release to the environment.  
 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

#### EUH208

Contains 1,2-benzisothiazol-3(2H)-one, mixture 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), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

These are preservatives.

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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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