

SigaCoat 190

1-C-Acrylic topcoat, water-based, coloured, silk matt

Description: 1-component special acrylate hydro polymer
VOC < 25 g/l, water-based

Characteristics:

- UV - resistant and UV - protective
- good coverage
- water-based
- for indoor and outdoor use
- very good adhesion on most surfaces
- fast drying
- silk matt finish

Application: **SigaCoat 190** is an economical, weatherproof, coloured topcoat which is especially suitable as protection against weather conditions and aggressive atmospheric influences. Due to the special acrylate polymer combination it is possible to achieve abrasion resistant surfaces which are easy to clean.

SigaCoat 190 is suitable for use as topcoat on most surfaces / coating systems for steel and concrete (we recommend to apply a test area) where a durable, weather resistant finish is required. Apply **SigaCoat 190** by using brush, roller or airless spray equipment.

Consumption: approx. 0.25 - 0.3 kg/m² (at 80 microns DFT), 1 - 2 x depending on colour and substrate; concrete 2 x.

Resistant to:

- weather conditions
- dry temperature +80°C
- water and marine conditions
- overflow resistant to oil and lubricants

Technical Data:

Mixing ratio n/a	1-component
Density (23°C)	approx. 1.20 g/cm ³ depending on colour
Volume solids	approx. 45 %
Viscosity (23°C)	approx. 1000 mPa@s ± 200 depending on colour

Details for application:

Pot life (15°C / 23°C / 30°C)	1-component
Substrate temperature	minimum 10°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	75 % (minimum +3°C above dew point)
Duration between applications (should the duration between coats be too soon, curing of the subsequent coat will be affected)	15°C: min. 3 hours 23°C: min. 2 hours 30°C: min. 1 hour
Curing time / tack-free (15°C / 23°C / 30°C)	3 hours / 2 hours / 1 hour
Curing time / mech. resistance (15°C / 23°C / 30°C)	7 days / 3 days / 2 days
Curing time / rain resistance (15°C / 23°C / 30°C)	3 hours / 2 hours / 1 hour
All above values are approximate and may be used as a guideline for specifications	

Packaging: 15 kg - pails

Colour: stone grey approx. RAL 7030 (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage: 6 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C. Protect from frost!

1. Surface preparation

Steel: The protected steel surface that is to be sealed must be in a sound condition and of good quality in general. Prior to application remove any oil, fat or grease with Pure Clean Power or equivalent. The surface must be clean, dry and free of oil, fat and any other contaminants which impair the adhesion. Do not use for application directly on steel substrates.

Concrete: Prior to application remove any oil, fat or grease with Pure Clean Power or equivalent. Depending on the condition of the concrete the surface must be prepared with a suitable plastic modified cement screed. The surface that is to be coated must be in a sound condition and of good quality in general. It must be clean, dry and free of oil, fat and any other contaminants which impair the adhesion. Prior to, during and after surface preparation, application and curing the substrate temperature must be minimum +3°C / 3K above the dew point (see dew point table).

2. Preparation of material

Airless spray resp. brush / roller:

The temperature of the product must be at least 15°C. Mix the material using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a homogeneous mixture has been achieved.

3. Application method

If it is required to dilute with neutral water; add max. 3 - 5 % - characteristics will be influenced.

Airless spray

Efficient airless spray equipment

Pressure ratio: e.g. 1 : 68

Spray hose: approx. 30 m $\frac{3}{8}$ " + 2m $\frac{1}{4}$ "

Inlet pressure: 2 - 4 bar

Nozzle size: 0.33 - 0.38 mm

Spraying angle: 40 - 70°

Flow heater if required: 20 - 25°C

We recommend to remove the high pressure filters and to pump the material directly without a siphon tube.

N/B: At low temperatures we recommend to use insulated hoses and a flow heater

Brush / roller

Care must be taken to apply sufficient material in order to achieve the specified dry film thickness. Repeat the coats until sufficient film thickness is obtained. Multiple coats may be required to obtain desired appearance.

The a. m. information are recommendations only and may be adjusted depending on the conditions of the object.

4. Resistance

Mechanical

- scratch resistant
- UV - resistant and UV - protective

Thermal

- dry heat up to +80°C

Chemical

- industrial and marine conditions
- diluted acids and alkalis (consult us)

Due to the fact that the resistance of the coating can be affected by various factors (medium, temperature, concentration, layer thickness, etc.) we recommend to consult us prior to application.

5. Health and safety

GISCODE: M-LW01

Avoid inhalation of the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

6. EU Directive 2004/42 (Decopaint - Directive):

According to the EU Directive 2004/42, the maximum allowed content of VOC (Product category All / i / type WB) is 140 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

SigaCoat 190; 0.00/18.11.2017. All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the actual edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally-binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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