SigaCoat 191

1-C-topcoat, coloured, silk matt

Empowered by Expertise!

Description:

1- component special acrylate polymer
VOC < 500 g/l, contains solvents

Characteristics:

- UV - resistant and UV - protective
- good coverage
- fast tack-free surface after application
- for outdoor use
- excellent adhesion on most surfaces
- silk matt finish

Application:

SigaCoat 191 is an economical, weatherproof, protective and coloured topcoat which is especially suitable as protection of steel constructions for hydraulic engineering and offshore constructions. It protects surfaces against aggressive influences from the atmosphere with self-cleaning properties up to a certain extent. Due to the special acrylate polymer combination it is possible to achieve abrasion resistant surfaces which are easy to clean.

SigaCoat 191 is suitable for use as topcoat on most surfaces (we recommend to apply a test area) where a durable, weather - resistant finish is required.

Consumption:

approx. 0.2 kg/m² (at 80 microns DFT), 1 - 2 x depending on colour and substrate; concrete 2 x.

Resistant to:

- splash / spillage of water and salt water
- weather conditions
- dry temperature +80°C
- diluted acids and alkalis (please consult us)
- splash / spillage of lubricants and fuels

Technical Data:

Mixing ratio n/a	1-component
Density (23°C)	approx. 1.30 g/cm³ depending on colour
Volume solids	approx. 45 %
Viscosity (23°C)	approx. 1000 mPa⊕s ± 200

Details for application:

Pot life (5°C / 23°C / 30°C)	1-component
Substrate temperature	minimum 5°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	85 % (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)	5°C: min. 4 hours 23°C: min. 2 hours 30°C: min. 1 hour
Curing time / tack-free (5°C / 23°C / 30°C)	4 hours / 2 hours / 1 hour
Curing time / mech. resistance (5°C / 23°C / 30°C)	14 days / 3 days / 1 day
Curing time / chem. resistance (5°C / 23°C / 30°C)	14 days / 3 days / 1 day
All above values are approximate and may be used as a guideline for specifications	

Packaging:

13 kg - pails
30 kg - pails

Colour:

agate grey approx. RAL 7038 (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C

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

Airless spray

Efficient airless spray equipment

Pressure ratio: minimum 1 : 68

Spray hose: approx. 20 m ⅜“ + 2m ¼“

Inlet pressure: 3 - 5 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.

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

- highly scratch resistant
- UV - resistant and UV - protective

Thermal

- dry heat up to +80°C

Chemical

- industrial and marine conditions
- splash / spillage of: water, salt water
- 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-PL04

Due to the fact that **SigaCoat 191** is a solvent containing coating, it is common practice when used in enclosed areas to circulate the air during and after the application until the coating is cured. The ventilation system should be capable of preventing any solvent vapour concentration from reaching the lower explosion limit for any solvents that may be present. Avoid inhalation of the vapours. Wear suitable protective clothing, gloves, eye / face protection and suitable respiratory equipment. Adequate ventilation of the working areas 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 AII / 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.

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