

Jotashield Carbo Silk

Product description

Type

This is a premium quality product, specially designed for Car parks, based on a polymerized enhanced acrylic water based topcoat.

Features and benefits

This unique product with its anticarbonation properties, not only protects the carpark walls, columns and ceilings from the vehicular exhausts that are capable of damaging the concrete, but with its high liquid water resistance and breathability, ensures that the concrete is safe from the damages that any entrapped moisture can cause. Tested for reflectivity and easy to clean properties, it brightens up the space and performs better against stains that are likely to be present in car parks. Available in a wide range of unique colours that gives character to the car parks.

Recommended use

Ideal for car parks walls, pillars and ceiling in car parks as a highly effective anti-carbonation coating.

Substrate

Cement plaster, concrete, block work, rendered surfaces, spray plaster etc

Substrate should have sufficient strength to receive the paint. Any defects in the substrate like surface undulations, cracks, pin holes etc., should be rectified/filled before starting painting. The compatibility of any third party filling material, if used, shall be confirmed with Jotun before application.

Product data

Packaging size	1 L, 4 L and 18L Egypt : 10 L
Colours	Refer to Jotashield exterior colour card.
Gloss level	6 - 8 EN ISO 2813 (60°)
Solids by volume	36 ± 2 volume% Theoretical
Specific gravity	1.27 Theoretical Only for white colour
VOC	0 g/l ISO 11890 EU
VOC comments	This is the theoretical value. Tested value will vary depending on test methodology, accuracy of equipment used for testing and test conditions.

Application data

The product can be applied by

Roller : Recommended.

Spray : Use airless spray or conventional spray.

Brush : Recommended to paint corners and edges.

Guiding data for airless spray

Nozzle tip	0.021-0.027"
Spray angle degrees	65-80°
Pressure at nozzle	140 - 190 kg/cm ² (2100 psi)

Film thickness per coat

Typical recommended range

Dry film thickness 35 - 50 µm

Wet film thickness 95 - 135 µm

Film thickness will vary and are calculated as an average.

Theoretical spreading rate 10.8 - 7.6 m²/l

Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.

Maximum spread rate per coat is obtained at minimum dry film thickness and vice versa.

Thinner

Water

Dilution

Maximum 10 %

Conditions during application

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

Drying times

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

1. Recommended data given is, for recoating with the same generic type of paint.
2. In case of multi-coat application, drying times will be influenced by the number and sequence and by the total thickness of previous coats applied.
3. The surface should be dry and free from any contamination prior to application of the subsequent coat.

The drying time is measured by stated values:

Relative Humidity (RH) 50 %

Substrate temperature	10 °C	23 °C	40 °C
Surface (touch) dry	12 h	6 h	2 h
Hard dry	16 h	8 h	4 h
Dry to over coat, minimum	12 h	6 h	2 h

Directions for use

Surface preparation

The substrate must be sound, clean, dry and free from dust, oil, grease, laitance etc. All traces of form release agents/curing agents must be removed. A light sanding with suitable abrasive material is recommended before application. Any resulting dust/loose particles must be removed.

Recommended paint system

Primer

Acrylic Emulsion Primer or Jotashield Alkali Resistant Primer or Jotashield Penetrating Primer : 1 Coat

Topcoat

Jotashield Carbo Silk : 2 Coats.

Use Jotashield Filler or Jotashield Ultra Bond Filler to rectify any imperfections on the substrate followed by sanding and the removal of accumulated dust.
Alternatively Jotun Block Filler can also be used to rectify any imperfections on the substrate followed by sanding and the removal of accumulated dust.

Remarks

Other systems may be specified, depending on area of use.

Masking tape has to be removed immediately after application of the topcoat.

Contents of packaging with different batch numbers must be mixed together before use.

Please refer to the Decorative Sales Department for technical advice.

This product is available in: United Arab Emirates, Bahrain, Kuwait, Qatar, Saudi, Oman, Egypt

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Environmental labelling

Green Building Standards

The declared product contributes to Green Building Standard credits by meeting the following specific requirements:

LEED®v4 (2013) / LEED®v4.1 (2020)

EQ credit: Low emitting materials

- VOC content for Nonflat Coatings (Gloss >5 and <70 on 60 degree meter) (100 g/l) (CARB(SCM)2007) and emission 0.5-5.0 mg/m³ (CDPH method 1.2).

MR credit: Building product disclosure and optimization

- Material Ingredients, Option 2: Material Ingredient Optimization, International Alternative Compliance Path - REACH optimization: Fully inventoried chemical ingredients to 100 ppm and not containing substances on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.

- Environmental Product Declarations. Product-specific Type III EPD (ISO 14025;21930, EN 15804).

BREEAM® International (2016)

Hea 02: VOC emission CDPH method 1.2 (2017)) and the VOC content for One-pack performance coatings (100 g/l).

Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804).

Additional certificates and approvals may be available on request.

Certificates

Carbon di-oxide diffusion resistance : Tested in accordance with BS EN-1062-6 - Class C1, as per BS EN 1062-1

Water vapour transmission rate : Class V2, as per BS EN 1062-1

Liquid water transmission rate : Tested in accordance with EN 1062-3, Class W3 (low), as per BS EN 1062-1

Scrub resistance : Tested in accordance with EN ISO 11998:2006

Cleanability/ practical washability : Tested in accordance with ASTM D4828

Light reflectivity value : Tested in accordance with ASTM E1331

Reaction to Fire : Tested in accordance with ASTM E 84 - Class A

Health and safety

Please observe the environmental and precautionary notices displayed on the container.

A Material Safety Data Sheet for the product has been issued.

Detailed information regarding health and safety risks and precautions for the use of this product is specified in the product's Safety Data Sheet.

First-aid measures, refer to section 4.

Handling and storage, refer to section 7.

Transport information, refer to section 14.

Regulatory information, refer to section 15.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.