

CRAFCO QF PUR

Fast Curing, solvent free, 2 pack floor coating based on urethane technology

General

Main properties/ U.S.P.'s

Very fast curing. Exposure to full loads possible after 10 hr.
Hardening through very fast, even at 0 °C.
Excellent mechanical resistance, impact/abrading.
Very durable coating.
Low solvent content.
Suitable for professional use indoors according Arbo-regulations (Dutch).
Applicable as anti-slip system.
Hard wearing and durable.
Easy to clean.
Long pot life.

Use

Crafco QF PUR coating is used as a chemical resistant and mechanically loaded floor coating (suitable for both indoor and outdoor) f.i. car-parks, stores, shops, repair shops (garages) and at sites with liquid-tight requirements.
Crafco QF PUR is also available in translucent version for instance for sealing flakes on decorative floor systems.
Crafco QF PUR can be applied as fast trowel floor when adding Crafco trowel sand.
Crafco QF PUR can be applied as fast screed by adding silver sand.
For applications at lower temperatures, a liquid catalyst can be added.

Application Information

Application conditions

Air temperature: 0-30°C.
Surface temperature: minimum 0°C.
Product temperature: 0-30°C.
Relative humidity: maximum 85%.
The temperature of the substrate needs to be at least 3° above the condensation point in order to avoid building of condense. Do not apply the product during bad weather conditions. Cement based substrates have to be older than 28 days, unless otherwise specified by suppliers.

Application methods

Application data

Cleaning equipment

Brush, roller or wiper.

No thinning required.

The tools may be cleaned with PU Thinner, provided the material has not fully cured yet.

Advised layer thickness per coat

1^e layer: 200-400 micrometer (wet). Apply a full shining layer.

2^e layer: 200-400 micrometer (wet). Apply a full shining layer.

Coverage

Crafco QF PUR (A+B): 2-4 m²/l.

Practical coverage is depending on many factors, like porosity, surface roughness, application method etc.

Mixing ratio

By volume:

Component A (color): approx. 40 parts.

Component B (hardener): approx. 60 parts.

Pot life (20 l set)

At 20°C: 40 min.

Mixing

The components have to be mixed mechanically by means of a slow running (200 r.p.m.) drill fitted with a stirring paddle. When A and B have been thoroughly mixed, optionally, additional catalyst can be added with low stirring for application at lower temperatures. For the right use of catalyst per temperature, see the catalyst table.

With sand for anti-skid

Hand strewn: 1,5-2 kg/m².

Sprayed with Chiron spray gun: 0,3-0,6 kg/m²*.

* Use strongly dependent on crudeness of sand used.

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Anti-Skid

4% Vol	Skid Resistance SRT		Skid Resistance FSC					
			Leather		Plastic		Rubber	
Color	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
7037	94	42	0,55	0,54	0,71	0,65	0,9	0,91

ATTENTION: Skid resistance is dependent on several factors such as layer thickness and substrate. It is advisable to first apply a test surface.

ATTENTION: Applying anti slip in light colors may give small deviations in color.

For further information on anti-skid, please refer to the anti-skid data sheet.

Application Instructions for Trowel Floor

By Weight:

Mixing Ratio trowel application

Component A: 8 parts.

Component B (Hardener): 6,8 parts.

Crafco troweling sand: 70 parts.

Way of mixing trowel application

First mix A and B component. When these are thoroughly mixed, the sand can be added. Sufficient homogeneity can be achieved by using a Zyklos mixer.

Yield of trowel mixture

QF PUR set	KG sand
half 5 L set	17,5
5 L set	35
half 20L set	70,5
20 L set	141

Crafco QF PUR	Crafco trowel sand (pieces)	Crafco QF PUR set (Liter)
20 L set Crafco QF PUR trowel product	2	5
40 L set Crafco QF PUR trowel product	4	10

Application Conditions Screed

Mixing ratio screed

By Weight:

Component A: 8 parts.

Component B (hardener): 6,8 parts.

Depending on the filling need of the substrate add fire dried silver sand that creates the required application viscosity.

Way of mixing screed

First mix A and B component. When these are thoroughly mixed, the sand can be added. Sufficient homogeneity can be achieved by using a Zyklos mixer.

Training/Warranty

Training

When Crafco QF PUR is used for the first time, it is obligatory to first follow an application training session.

Warranty

System warranty can be given.

Conditions for system warranty are:

A system advice needs to be given for the project prior to application.

Application needs to be done by an application company that has been

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certified for use of the Crafcoc products.

Health & Safety Information

Flash point

Component A: > 100°C.

Government regulations

Component B: > 100°C.

Material safety datasheet

The user of this product is required to comply with the national statutory regulations for health and safety at work and waste disposal.

For more information see MSDS of Crafcoc QF PUR coating components A, B, and C.

Properties

Gloss

High gloss, approx. 90 GU/60° (ISO 2813).

Density

Mixed product: approx. 1,41 kg/dm³.

Solids content

100 vol. %.

Volatile organic components (VOC)

0 g/l. When diluting according to the instructions for the second layer: 50 g/l.

Hardness

90 ± 5 Shore D after 7 days 20°C (DIN 53505).

Chemical resistance

Excellent resistance to chemicals and cleaning agents after hardening through (see chemical resistance list).

Wear resistance

85 ± 10 mg / 1000 cycles (CS17 wheel, 1 kg load, according DIN65182).

Load capacity

Drive on after 6 hr. Full exposure after 10 hr.

Drying at 20°C/65%RH

Drying at: 20°C/65% RV	Potlife	Drying 1 st layer	Drying 2 nd layer	Last layer Walkable
Normal sand/ no liq. catalyst added	40 min.	2,5 hr.	2,5 hr.	2,5 hr.
Sand with catalyst	40 min.	20 min.	< 1 hr.	1hr 15 min.

Drying at 10°C/65%RH

Drying at: 10°C/65% RV	Potlife	Drying 1 st layer	Drying 2 nd layer	Last layer Walkable
Normal sand/ no liq. catalyst added	60 min.	5 hr.	5 hr.	5 hr.
+1% vol. liquid catalyst	40 min.	2,5 hr.	2,5 hr.	2,5 hr.
Sand with catalyst	60 min.	30 min.	< 1,5 hr.	1,5 hr.

After sanding in with sand with catalyst, there is 4 hours' time to apply the next layer. After this time, re-use and drying of the next layer cannot be guaranteed.

Additional information

Packaging

Packaging per component:

Crafcoc QF PUR A-component: 8,32 L.

Crafcoc QF PUR B-component: 11,68 L.

Crafcoc QF PUR CAT: 2,5 L.

Crafcoc QF PUR SAND: 16 KG/ 10 L.

Please note:02-06 sand can only be used indoor because of low anti-slip value.

Shelf life

In unopened packing minimum 12 months when stored at temperatures of 5 – 30°C.

Colors

Available in a limited number of RAL-colors: 7021, 7032, 7035, 7036, 7037, 7042, black. Information about the full color range, minimal order size and

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Catalyst

deliveries (time schedule) is available at the Technical Sales representative. Crafcoc QF PUR CAT can be added in order to accelerate drying.

T (°C)	Addition volume % QF PUR CAT					
	0% vol		1% vol		2% vol	
	Potlife	Drying	Potlife	Drying	Potlife	Drying
30	20 min.	60 min.				
20	40 min.	120 min.				
10	60 min.	270 min.	40 min.	150 min.		
0	90 min.	400 min.	60 min.	270 min.	40 min.	180 min.

Sand with catalyst can be re-used only once.

Systems

Concrete:

Pretreatment

Prior to the application of the coating the substrate has to be sound, clean, dry, free of dust and grease. Smooth and very dense substrates have to be roughened by means of dust-free-blasting, sanding or other mechanical means.

Old and smooth paint systems should be mechanically sanded after cleaning with PU Thinner. After sanding, the surface should be cleared of dust.

Blasted or diamond sanded substrates can be primed with Crafcoc QF PUR. In case of critical substrates or other types of pretreatment first prime with Crafcoc PTC (interior) or Crafcoc UP/Crafcoc UP Fast (exterior).

Crafcoc QF PUR as trowel floor

Apply a first layer of Crafcoc UP as sticking primer.

Mix according to aforementioned table Crafcoc trowel sand with the pre mixed Crafcoc QF PUR.

Finishing

Smooth system

Finish the primer layer of Crafcoc QF PUR within 24 hours with Crafcoc QF PUR. For a decoration effect, the wet layer can immediately be sprayed with flakes.

Finishing

Anti-Skid system

On the primer layer, apply a full shiny layer of Crafcoc QF PUR. Strew in excessive sand with Crafcoc QF PUR Sand.

After drying, remove the loose sand with a broom. After removing the sand, apply the next layer of Crafcoc QF PUR within 4 hours diluted with 5% PU Thinner. For a decoration effect, the wet layer can immediately be sprayed with flakes.

Remarks

Only use Crafcoc QF PUR Sand by strewing it on the applied coating; Never mix with Crafcoc QF PUR mixed paint because of vigorous reaction.

Only use Crafcoc QF PUR Sand 02-06 in interior applications because of low anti-skid properties.

Excess sand with catalyst can be re-used only once.

Never leave the sand with catalyst for more than 4 hours on the substrate before recoating.

When moisture (rain, mist, dew) affects the sand, it rinses away the catalyst, rendering an non-catalytic sand.

Impurities in the sand can have negative consequences for appearance and

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catalytic properties.

Sand with catalyst is not classified as chemical waste under Dutch legislation, but is considered construction waste.

Puroc b.v., www.puroc.co, the Netherlands.

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