

CRAFCO QF EPT

Fast curing, solvent free, 3 pack floor coating based on epoxy technology for indoor use

General

Main properties/ U.S.P. 's:

Very fast curing. Overnight exposure to full loads possible.
Hardening through very fast, even at 0 °C.
Solvent free. (Second coat is allowed to dilute with 5% solvent (75 gram/ltr)).
Very long pot life (> 24 hrs without catalyst added, 30 min with 1% catalyst).
Excellent mechanical-, impact- and abrading resistance.
Good chemical resistance.
Easy to clean.
Good application behavior.
Excellent adhesion to bituminous substrates.

Use:

Crafco QF coating is used as a chemical resistant and mechanically loaded indoor floor coating f.e. car-parks, stores, shops, repair shops (garages) and industrial floors in general.
Crafco QF coating can be in scattered with sand 0,3 – 0,8 mm or grade 0,2 – 0,6 mm, or even other grades for anti slip properties. A second coat will never be scattered.

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:

Brush, roller or wiper

Application data:

2nd coat can be thinned down with up to 5 % Sikkens PU Thinner.

Cleaning equipment:

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

Advised layer thickness per coat:

Prime coat: 200 – 400 µm wet. Apply a full shining layer.
On scattered coat grade 0,3 – 0,8 mm: second layer 350 – 450 µm wet.
On scattered coat grade 0,2 – 0,6mm: second layer 250 – 350 µm wet.

Coverage:

Crafco QF (A+B) : approx. 2 – 4 m²/l per layer.
Use of Sand: approx. 2,5 kg/m²
After removing excess sand, about 1 kg/m² stays in the coating.
Practical coverage is depending on many factors, like surface roughness, size sand particles etc.

Mixing ratio:

By volume:

Component A: 68 parts (color).
Component B: 32 parts (hardener).

By weight:

Component A: 74 parts (color).
Component B: 26 parts (hardener).

Pot life (20 l set) at 20 °C:

Component A + B: without catalyst: > 24 hrs
Component A + B: with 1v/v% catalyst: 30 minutes

Mixing:

The components have to be mixed mechanically by means of a slow running (200 r.p.m.) drill fitted with a stirring paddle.

Education:

Before the first project customers are obliged to follow an in-house training program of Crafco or application should be done under supervision of Crafco personnel.

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Catalyst

ATTENTION: Without added catalyst, the product will not cure!!

Time	Addition in volume-% Crafcoc QF EPT Cat							
Min.	0,5 %		1%		2%		3%	
T(°C)	Potlife	Dry	Potlife	Dry	Potlife	Dry	Potlife	Dry
30	30	120	20	60				
20	60	240	30	120				
10			60	270	30	130		
0			90	400	60	270	30	180

Potlife and drying times are in minutes.

Remark: for determining the potlife and drying times, it is important that the temperature of the paint is equal to the temperature of the substrate.

Health & Safety Information

Flashpoint:

Component A: >100°C.

Component B: > 100°C

Government regulations:

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

Material safety datasheet:

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

Properties

Gloss:

High gloss

Density:

Mixed product: approx. 1,57 kg/dm³.

Volatile organic components (VOC):

0 g/l. When 5 v/v% thinner is added approx. 75 g/l.

Solids content:

100 vol.%.

Drying at 20°C/65% RV:

First coat Crafcoc QF EPT, Potlife 30 minutes, drying time 2 hours.

Recoat after 2 hours, maximum 72 hours.

Second coat Crafcoc QF:

Step proof: after 2 hours depending circumstances as Temp. and Relative Humidity.

To be driven on: 5 hours

Fully loadable (also chemical): overnight.

Hardness:

90 ± 5 Shore D after 3 days at 20 °C (DIN 53505)

Skid resistance:

Grade 0,3 – 0,8 mm: 45 – 50 on Skid Resistance tester (SRT) according ASTM E-303

Grade 0,2 – 0,6 mm: 35 – 40

Chemical resistance:

Excellent resistant to common used chemicals and cleaning materials. For detailed information make inquiries to the technical department or ask for chemical resistance list.

Additional information

Packaging:

Standard packaging: 20 l sets A + B

Catalyst for Crafcoc QF EPT: 5 Liter pack.

Shelf life:

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

Colors:

Available in many RAL-colors. Information about the color range, minimum order size and deliveries (time schedule) is available at the Technical Information department.

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Systems

Pretreatment

Cementitious substrates need to be at least 28 days old before coating. Prior to the application of the coating the substrate has to be sound, clean, dry, free of dust and grease. Pretreatment has to be done by means of dust-free-blasting, high pressure water blasting or mechanical (diamond) sanding. Already existing paint layers have to be cleaned followed by mechanical sanding. Thereafter dust has to be removed and finally the floor must be cleaned with a PU-thinner.

Blasted or sanded substrates should be primed with Crafcoc UP or Crafcoc UP Fast.

Coating

Anti Skid systems

Coat with Crafcoc QF EPT coating A + B component + liquid catalyst. Apply a full shining coat.

Scatter full with sand.

After hardening remove the not bonded sand by broom.

Apply within 72 hours a second coat of Crafcoc QF EPT coating A + B, thinned with 5 % Sikkens PU Thinner.

Note: For a decorative effect Flakes can be scattered (till 15 minutes after application) in the wet layer.

Smooth systems

Coat with Crafcoc QF EPT coating A + B component + liquid catalyst. Apply a full shining coat.

Apply within 72 hours a second coat of Crafcoc QF EPT coating A + B + liquid catalyst, possibly thinned with up to 5 % Sikkens PU Thinner.

Additional remark

At lower temperatures up to 5% Sikkens PU Thinner can be added to improve application behavior.

In areas of possible rising humidity do not use Crafcoc QF EPT without primer.

Systems will only hold in case of sufficient pre treatment. No guarantee can be given on systems with insufficient pretreatment.

Before the first project customers are obliged to follow an in-house training program of Akzo Nobel / Crafcoc or application should be done under supervision of Crafcoc personal.

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

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