



Graco XM PFP coats Russian oil refinery with Chartek 1709

Application of Chartek® 1709 intumescent material on the pipe support structures at Khabarovsk oil refinery

Khabarovsk (pronounced Ga-bar-usk) is best known as the city displayed on Russia's RUB 5000 bank note, however it's also a region undergoing major oil exploration in Russia. The privately owned NK Alliance Khabarovsk Oil Refinery is the asset owner of a PFP project. They contracted Elga LLC to coat pipe racks on the oil refinery site with Chartek 1709. Elga LLC is recognized as a qualified Chartek applicator by AkzoNobel, manufacturer of International® protective coatings and passive fire protection products.

Having learnt that AkzoNobel endorsed Graco's XM PFP as approved application equipment for Chartek 1709, the contractor, Elga LLC, consulted Pavel Khomenko, Graco's Protective Coatings Business Development Specialist in Russia. With Graco's PFP distributor Anticor Composite, both Khomenko and Anticor proposed Graco's XM PFP rig for this demanding project to Elga LLC. The XM PFP is especially designed for Chartek and it was the most suitable unit because the spraying season in Russia is short and the job needed to be done quickly.

Local training in the native language and immediate support

"Traditionally PFP machines are supplied into Russia from Germany and United Kingdom.", mentioned Mr. Alexey Bryansky, Elga LLC's Engineering Manager. *"We liked Graco's local business approach of supplying its products through professional Russian owned companies such as Anticor. With local training in our native language and immediate support – there's no need to wait for someone from the UK or Germany to fly to Russia when we have a problem."* These were some of the factors that Mr. Bryansky assessed before deciding to invest in PFP application equipment.

Anticor mobilized their Graco XM PFP trained product service engineer, Mr. Genady Dubrovsky, to travel to Khabarovsk to commission and train the Elga LLC operators and site supervisors on the XM PFP.

Double productivity

Applying the same product with trowels would normally take Elga LLC one working day to coat 120 m² with on-site conditions. Graco's XM PFP increased production to 200 m² a day with a 5 cm dry film thickness build-up per coat.

Bryansky added: *"After purchasing Graco's XM PFP we've managed to double our productivity. This is really important, as weather deteriorates fast in this region now that autumn is approaching. Thanks to the professionalism of Graco and the local Graco distributor, we were able to start the job immediately after the purchase of the unit."*

END USER

OOO "ELGA"

Industry market sector

Oil refinery

CONFIGURATION

- 262878 System XM PFP, 11,4 litre/max output
- Viscon HF primary heaters
- XHF gun with 429 tip
- Merkur 30:1 flush pump
- 400v 3ph
- 15m 3/4" hose (16T122)
- 8m 1/4" whip hose (16T121)
- Heat 70 C

Supply and agitation

- 24P202 Supply Unit, PFP, Shipping
- 2 X 20 liter CheckMate pumps
- 2 x 76 liter pressure tank with level sensor
- 24P885 XM PFP feed module agitator

APPLICATION

Epoxy intumescent coatings

Consumption

Project value in this year – 5000-10000 kg

Material specifications

Chartek® 1709

Typical Properties

Colour Medium Grey

Gloss Level Not applicable

Volume Solids 100%

Typical Thickness Depends on protection required

Density 1000 kg/m³ - spray applied

Method of Application Hot twin feed airless spray

Drying time : 40°C (104°F) – touch dry at 1 hour, hard dry at 4 hours

Flash Point : Base>106°C, Hardner>106°C, Mixed>106°C

VOC 1 g/l, 1 g/kg EU Solvent Emissions Directive (1999/13/EC)

Mix Ratio Always mix full units unless application is by hand

Working Pot 15°C (59°F) 25°C (77°F)

Life 90 minutes 50 minutes

GRACO Equipment

262869 Graco XM PFP

262854 XHF spray gun



GRACO Distributor

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