



**INDUSTRIAL PAINTS**







Betek Boya Kimya ve Sanayi A.Ş., founded in 1988, in the early years of its entrance into the sector, has developed high quality products at concrete mixture, ready-mixed mortar and water isolation material fields needed by construction materials market. High demand, that arisen due to its effective sales and marketing systems, has enabled the company to grow rapidly. Betek has embarked on search for new markets with experience and power it gained regarding construction materials and added construction paint to its product range.

By using the latest production technologies, with products that direct consumer demands, that make a breakthrough, Betek has earned the identity "leading and innovative brand that makes quality production", and in a split second -and in a manner that is exemplary in the industry- has become the strongest company of the Turkey's paint industry. By 2001, it has risen to market leadership in paint industry. Betek, by believing the importance of brand investment on its way to leader position in the sector has made sustainable investments in this regard, has created Filli Boya and Fawori brands which won the hearts of the Turkish consumers. With more than a thousand employees, nearly 3,000 point of sales, Betek has left its mark on the sector, and has risen to a significant position not only in paint sector but amongst the most significant industrial organization in Turkey.

The year 2003 have a cornerstone value in the development process of Betek Boya Kimya ve Sanayi A.Ş. On this date, Betek has initiated its activities in the field of heat insulation and has undertaken leadership duty in this sector by its activities in "insulation" sector which it sees as a social responsibility project for the sake of the future. Betek AŞ, with Gebze Factory which is the first integrated plant of Turkey where it conducts the production of all main components of paint and heat insulation systems, have attained the leading organization position of Turkey in the insulation sector just as it is in paint sector.

Betek, which enhances its power each year with its growth rate it achieves over its competitors and sector, in November 2007 has initiated the opening of RMI Scientific Research Center which has great services to its development on paint and heat insulation and to the sector. Finally, with its annual production of 150,000 tonnes dry mortar and 400,000 m3 EPS materials in its facility which has been founded on an area of 100,000 m2 in Kayseri; has started to produce all the main components of heat insulation systems.

Betek, which took showing the domestic success it has achieved in foreign markets as its mission, with the manufacturing facility with 26,000 tonnes of paint production capacity founded on an area of 11,000 m2 in Egypt and with its exports to tens of countries, is also in the leading position in exports.

Betek, which has become a strong brand by the cooperation of labor with science and technology through always placing importance on research and development, has never forgotten the nature which has given inspiration to it in all the activities it has conducted. It has always paid attention to using the limited energy resources of our world and country most efficiently. Has executed a large number of projects in order to instill this idea to sector employees and public opinion. Has made great contributions to environment and national economics through its resource consumption, waste management, recovery and recycling practices. Has managed to stay eco-friendly with both its products and production facilities.

The objective is to make Betek, which rises on these values, a brand that has a voice worldwide.

# STRONG PROTECTION

Metal surfaces used in industry must be protected in the best way against corrosion, UV light and aggressive environmental conditions.

Paints and auxiliary products specially developed by Filli Boya Industrial Group protect metal surfaces safely for years.





— COMMERCIAL BUILDINGS

— FACTORIES

— AIRPORTS

— SHOPPING

— STORAGE TANKS

In order to use the right paint system in steel structures, users and practitioners must have sufficient information. In order to understand and evaluate the systems correctly, a common language is required. **ISO 12944** standard that has been developed based on the actual application data has become a reliable source for practitioners for determination and selection of the paint systems.

**During selection of the correct paint system, the factors such as;**

- Ambient conditions
- Expected life time
- Ease of application
- Environment and health and
- Cost must be taken into consideration

**Anti Corrosive Paint Systems** created by Filli Boya industry group basing on the **R&D** protects building projects against all environmental conditions and adds aesthetic.

It is necessary to select the most suitable paint system in order to protect the **STORAGE TANKS AND INDUSTRIAL PLANTS** located in severe atmospheric environments and exposed to alkalies and acids against the environmental conditions. The highest corrosion resistance is requested for the selected paint system.

**Corrosion resistance according to ISO 12944:**

H-High: More than 15 years

M- Medium: 5-15 years

L – Low: 2-5 years



### Filepox PR-4140

#### Technical specifications

Gloss	Semi-gloss
Solid content (volume %)	74±2
VOC g/lt	235±2
Dry film thickness that can be applied (min / max)	75-250 µm
Mixing ratio (by volume)	4 units A comp. 1 unit B comp.
Potlife (23°C)	2 hour
Drying (23 C)	
- Touch dry	1 hour
- Waiting time for the second coat (minimum)	2 hour

Filli Boya carries out observation, measurement and reporting activities with the paint site supervisors having **NACE Certificate for continuation of painting works in accordance with ISO 12944 standard.**

#### C5-M highly corrosive environment

Filepox ZP-1914 70 µ(kfk)

Filepox PR-4140 180 µ(kfk)

Filadur TC-4103 70 µ(kfk)





## On-Board Equipment

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Filli Boya industrial paints provides service to on-board equipment sector with paint and auxiliary materials; the products developed by Filli Boya for the situations requiring high UV resistance, chemical and mechanical resistance.



- Excellent corrosion protection
- Resistance to chemicals
- High impact resistance
- Quality service- Low maintenance costs- Scratch-proof-Superior impact resistance
- Company-specific color reproduction
- High gloss
- Long pot-life
- Ease of application

## Agricultural Machinery

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We offer the products providing strong corrosion resistance as well as color and gloss retention, minimizing the repair costs that have been designed by us for the markets working in difficult conditions and using agricultural machinery.



# Construction Equipment and Cranes

Construction equipment and cranes exposed to heavy workload and difficult working conditions are expected to survive for many years and to have operation interruptions due to maintenance costs and maintenance periods at a minimum level. We intend to keep maintenance costs at a minimum level by ensuring the sustainability of investments with our products which have been developed for the expectations of our customers.



## The product and system providing high UV resistance

### Filacryl TC-2125

#### Technical specifications

Gloss	High Gloss
Solid content (volume %)	46±2
VOC g/lit	450-567
Mixing ratio (by volume)	2 units A comp. 1 unit B comp.
Potlife (23°C)	6 hours
Drying (23 C)	
- Touch dry	8 hours
- Complete curing	7 day

#### Proposed system

Filepox PR-7140 70  $\mu$ (kfk)

Filacryl TC-2125 50  $\mu$ (kfk)



# Industrial And Potable Water Pipes

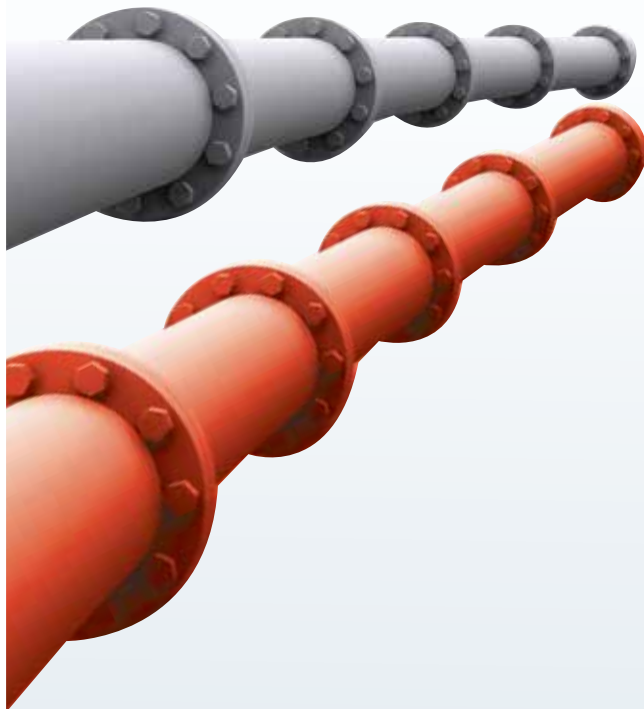
The paints of Filli Boya which are contained within the product variety, and developed for use on interior and exterior surfaces of pipelines coatings offers the customers a variety of alternatives in both new projects and well in repair and maintenance works.

The coatings used inside drinking water conveying pipelines and in drinking water tanks are expected;

- ▮ To be resistant against anti-corrosive effects
- ▮ Not to leave taste and smell in water contacting with them
- ▮ Not to do any harm to human health

## **Filepoks SBB designed by Filli Boya**

- ▮ Solventless epoxy technology
  - ▮ 100% solid content
- ▮ Not containing benzyl alcohol
- ▮ Applicability in high thicknesses
- ▮ Excellent corrosion and chemical resistance
  - ▮ AWWA C-210 approval
  - ▮ BS 6920 approval by WRAS
- ▮ Compliance with dry food storage





# CHOOSE FILEPOKS FOR HEALTH



Filli Boya Filepoks SBB developed for drinking water pipes and tanks does not harm human health due to its special formula; it is safe and long-life. For a healthy and clean water, choose solventless epoxy paint Filepoks SBB complying with the BS 6920 and AWWA-C210 standards and feel at ease.



# Manufacturing Industry



Steel is the main input of the manufacturing industry that is the leading sector of Turkey's economy and it must be protected in the best way. The life of steel is extended by using the anti-corrosive products developed by the Filli Boya Industrial Paints Group and steel meets with aesthetics by means of thousands of color options offered.

## Different solutions for different sectors



High resistance to shock with oven-dried systems



Quick-drying, economical industrial system having high coverage



Solutions offering high corrosion and mechanical resistance



Protective systems that can be welded before manufacturing



# Your work is entrusted to your machine, and your machine is entrusted to Filli Boya Industrial Paints

Millions of Turkish Lira are wasted every year in Turkey since steel used in industry cannot be protected adequately. These metals used in industry must be protected in the best way against corrosion, UV lights and aggressive environmental conditions in order to be able to use them for many years.

Filli Boya Industry Group products are used safely in all areas from the agricultural equipment to steel structures, particularly in machinery manufacturing industry. In order to protect your machines bearing the entire burden of your business in the best way and ensure that they remain effective for years, entrust them to Filli Boya expertise.



# Products



## PRODUCT NAME

## GLOSS

### Filalkyd / Alkyd-based air-drying products are

#### FILALKYD® PR-1020

Quick-drying zinc phosphate pigmented modified alkyd primer

Matt

#### FILALKYD® PR-1040

Quick-drying modified alkyd primer containing high zinc phosphate pigments

Matt

#### FILALKYD® AR-1020

Primer containing short oil alkyd resin

Matt

#### FILALKYD® TC-1003

Air-drying modified alkyd based top coat paint with quick surface drying

Semi – Matt

#### FILALKYD® TC-1004

Air-drying modified alkyd based top coat paint with quick surface drying

Semi – Gloss

#### FILALKYD® TC-1005

Air-drying modified alkyd based glossy top coat paint with quick surface drying

Gloss

### Synthetic-based single-component products are

#### FILASENT® PR-1020

Quick-drying zinc phosphate pigmented modified synthetic primer.

Matt

#### FILASENT® TC-1005

Modified synthetic based paint having high filling, covering, gloss retention, elasticity, mechanical and chemical resistance properties

Gloss

#### FILASENT® TC-1015

Modified synthetic based paint having high filling, covering, gloss retention, elasticity, and mechanical and chemical resistance properties.

Gloss

### FILACRYL / Acrylic isocyanate-cured products

#### FILACRYL® PR-4100

Acrylic based primer with filler and increased corrosion resistance.

Matt

#### FILACRYL® TC-4105

Acrylic isocyanate-cured, two-component top coat paint having high quality in terms of gloss retention, elasticity and chemical resistance properties.

Gloss

#### FILACRYL® TC-2105

Aliphatic isocyanate-cured, two-component, gloss top coat paint

Gloss

#### FILACRYL® TC-2125

Aliphatic isocyanate-cured, two-component top coat paint having high quality in terms of color and gloss retention, elasticity and chemical resistance properties.

Gloss

### FILADUR / Polyurethane based isocyanate-cured Products

#### FILADUR® TC-4103

Polyurethane resin based, two-component semi-gloss paint cured with aliphatic isocyanat and having high solid content, yellowing resistance, adhesion, and high mechanical strength properties.

Semi – Gloss

#### FILADUR® TC-4105

Polyurethane resin based, two-component high-gloss paint cured with aliphatic isocyanat and having high solid content, yellowing resistance, adhesion, and high mechanical strength properties.

Gloss

### FILASET / Oven-Cured Products are

#### FILASET® PR-1000

Alkyd-amino resin based , oven-cured primer having excellent adhesion and elasticity properties

Matt

#### FILASET® TC-1005

Alkyd-amino resin based , oven-cured top coat paint having excellent adhesion and elasticity properties

Gloss



SOLID CONTENT (volume %)	THEORETICAL COATING AREA (m <sup>2</sup> )	MIXING RATIO	HARDENER	THINNER	SURFACE TO BE PAINTED		
					Aluminum	Galvanized	Steel
58	35 µm for 16.6 m2/l			FILATHIN AL-1000	-	-	x
53	35 µm for 15.1 m2/l			FILATHIN AL-1000	-	-	x
73	35 µm for 20.9 m2/l			FILATHIN AL-1000	-	-	x
53	35 µm for 15.1 m2/l			FILATHIN AL-1000	-	-	x
52	35 µm for 14.9 m2/l			FILATHIN AL-1000	-	-	x
49	35 µm for 14.0 m2/l			FILATHIN AL-1000	-	-	x
58	35 µm for 17.0 m2/l	-	-	FILATHIN SNT-1000	-	-	x
48	35 µm for 13.7 m2/l	-	-	FILATHIN SNT-1000	-	-	x
48	35 µm for 13.7 m2/l	-	-	FILATHIN SNT-1000	-	-	x
43	35 µm for 13.7 m2/l	4/1	FILACURE AC-1000	FILATHIN AC-1000	-	-	x
47	32 µm for 14.7 m2/l	4/1	FILACURE AC-1010	FILATHIN AC-1000	-	-	x
42	32 µm for 13.1 m2/l	2/1	FILACURE AC-1030	FILATHIN AC-1000	-	-	x
45	32 µm for 14.1 m2/l	2/1(h)	FILACURE AC-1040	FILATHIN AC-1000	-	-	x
50	35 µm for 14.3 m2/l	4/1	FILACURE PU-1020	FILATHIN PU-1000	-	-	x
50	35 µm for 14.3 m2/l	4/1	FILACURE PU-1020	FILATHIN PU-1000	-	-	x
55	35 µm for 15.7 m2/l	-	-	FILATHIN SET-1000	-	-	x
53	35 µm for 15.1 m2/l	-	-	FILATHIN SET-1000	-	-	x



## PRODUCT NAME

GLOSS

### FILAWELD / Shop Primer is

#### FILAWELD® SP-2100

Two-component shop primer containing zinc phosphate rust inhibitors

Matt

#### FILAWELD® SP-9120

Two-component shop primer containing zinc phosphate rust inhibitors

Matt

### FILEPOX / Epoxy based products

#### FILEPOX® ZP-1914

Epoxy-polyamide based, two-component zinc-rich epoxy primer. As a result of curing, a coating resistant to wear and atmospheric conditions is obtained. It is a primer having high cathodic protection property. It contains 40% zinc dust by weight in dry paint film.

Matt

#### FILEPOX® ZP-1918

Epoxy-polyamide based, two-component zinc-rich epoxy primer. As a result of curing, a coating highly resistant to wear and atmospheric conditions is obtained. It is a primer having high cathodic protection property. It contains 80% zinc dust by weight in dry paint film.

Matt

#### FILEPOX® PR-7120

Epoxy-polyamide based, two-component primer showing excellent adhesion

Matt

#### FILEPOX® PR-7140

Epoxy-polyamide based, two-component primer with filler showing excellent adhesion and easily grindable.

Matt

#### FILEPOX® PR-7160

Epoxy-polyamide based, two-component primer showing excellent adhesion and providing high corrosion resistance due to its high zinc oxide, zinc phosphate content.

Matt

#### FILEPOX® PR-4120

Epoxy-polyamine based, two-component primer having high performance in terms of chemical resistance and anticorrosive properties.

Matt

#### FILEPOX® PR-4140

Epoxy-polyamide based, two-component, high-solid primer recommended for use in applications of thick coat primers with corrosion resistance due to its zinc phosphate content.

Matt

#### FILEPOX® TC-4103

Epoxy-polyamide based, two-component, semi-dull top coat paint showing excellent surface adhesion.

Semi – Matt

#### FILEPOX® TC-4105

Epoxy-polyamide based, two-component top coat paint showing excellent surface adhesion

Gloss

#### FILEPOX® CT-1000

Epoxy-polyamide based, two-component coal tar epoxy paint. Provides excellent resistance to sea water, crude oil and various soil chemicals

Semi – Matt

### Other

#### FILAFREE® EP-3100

Epoxy-polyamine based, two component solventless epoxy paint. It is resistant to fresh water, sea water, crude oil and abrasion. It is designed specifically for use on the surfaces that will contact with drinking water.

Semi – Matt

#### FILAFLOOR® EP-4100

Epoxy-polyamine based, two component solventless epoxy paint resistant to fresh water, sea water, crude oil and abrasion.

Gloss

#### FILAPOL® TC-1005

Polyester-amino resin based, oven-dried top coat paint.

Gloss

#### FILATHERM® TC-1063

Silicone resin-based paint having high temperature resistance and excellent adhesion on metal surfaces.

Semi - Matt



SOLID CONTENT (volume %)	THEORETICAL COATING AREA (m²)	MIXING RATIO	HARDENER	THINNER	SURFACE TO BE PAINTED			
					Aluminum	Galvanized	Steel	
31	15 µm for 20.7 m² / l	2/1	FILACURE SP-1000	FILATHIN SP-1000	-	-	x	
34	15 µm for 23.0 m2/l	9/1(h)	FILACURE SP-1020	FILATHIN SP-1000	-	-	x	
82	50 µm for 16.4 m2/l	19/1	FILACURE EP-1020	FILATHIN EP-1000	-	-	x	
81	50 µm for 16.2 m2/l	19/1	FILACURE EP-1020	FILATHIN EP-1000	-	-	x	
62	50 µm for 12.4 m2/l	7/1	FILACURE EP-1000	FILATHIN EP-1000	-	-	x	
56	50 µm for 11.2 m2/l	7/1	FILACURE EP-1010	FILATHIN EP-1000	x	x	x	
63	50 µm for 12.6 m2/l	7/1	FILACURE EP-1010	FILATHIN EP-1000	-	-	x	
70	50 µm for 14.0 m2/l	4/1	FILACURE EP-1050	FILATHIN EP-1000	-	-	x	
75	100 µm for 8.0 m2/l	4/1(h)	FILACURE EP-1090	FILATHIN EP-1000	-	-	x	
54	50 µm for 10.8 m2/l	4/1	FILACURE EP-1040	FILATHIN EP-1000	-	-	x	
58	50 µm for 11.6 m2/l	4/1	FILACURE EP-1040	FILATHIN EP-1000	-	-	x	
65	100 µm for 6.5 m2/l	4/1	FILACURE EP-1080	FILATHIN EP-1000	-	-	x	
100	200 µm for 5.0 m2/l	3/1	FILACURE EP-1070	-	-	-	x	
100	200 µm for 5.0 m2/l	4/1	FILACURE EP-1030	-	-	-	x	
46	50 µm for 9.20 m2/l		-	-	FILATHIN POL-1000	-	-	x
35	25 µm for 13.6 m2/l		-	-	FILATHIN SET-1000	-	-	x

<15 Gloss: Matt

15-45 Gloss: Semi – Matt

45-75 Gloss: Semi – Gloss

75-100 Gloss: Gloss



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