



since 1984  
**Semkim**  
[www.semkim.com.tr](http://www.semkim.com.tr)

**ALKYD  
RESINS**

# ABOUT US



## About Us

Semkim was established in Istanbul in 1984 to serve coating industry as an Alkyd Resin producer. Later, in order to meet growing expectations of customers Semkim established a new factory in 2003, in Izmir. As being pioneer in Alkyd Resin production (that stands for customer focus, operational excellence, innovation, reliability) , Semkim also provides a perfect range of customized chemical solutions such as varnishes for ink and paint. As Semkim, our biggest goal is to be the first choice of the paint manufacturers around the world. We keep prioritizing customer satisfaction by increasing product and service quality. Semkim exports more than 50% of its production to its customers in Europe, North Africa, Asia and Americas.



## Research and Development

Semkim targets meeting customer expectations as first priority. To meet customer expectations, our engineers put their know-how experiences on every step of production using cutting edge technologies in R&D laboratories. To develop new and higher quality products as per market demands, Semkim brings R&D units closer to the market, in order to fully understand our customers' needs. We implement continuous improvements by R&D investments, derived from academical studies.



# AREAS

## Application Areas

Alkyd resins are important ingredient of many synthetic paints, varnishes and enamels. They are also found in moulded thermosetting plastics applications. The principal applications are furniture and architectural coatings, product finish, special-purpose coatings and automotive refinishing primers. Alkyd-amino resin blends are probably the most important group of alkyd resins. Many stoving enamels, such as those for appliances, coil coatings and automotive finishes are based on alkyd-amino resin blends. Chlorinated rubber is often used in combination with medium oil drying-type alkyds. The major applications are traffic markings, concrete floor and swimming pool paints. Applications of alkyd modified silicon resins include heat-resistant paints, marine coatings and insulation varnishes.



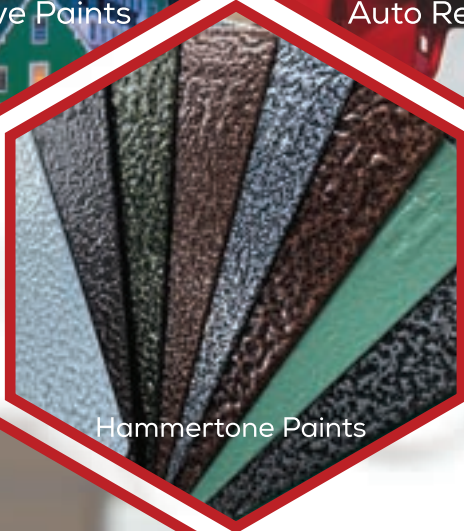
Decorative Paints



Auto Refinishes



Road Marking



Hammertone Paints



Can Coating



Wood Coating



Industrial Paints

# CERTIFICATES

## Quality Certificates



# MISSION & VISION



## Vision;

Our vision is to be the first choice of our clients by continuously delivering them superior value.



## Mission;

- to fulfill clients' needs and expectations at best
- to improve continuously our customer focussed quality system
  - to decrease our emissions
- to keep employee satisfaction at high level
  - to improve supplier quality standards
  - to use resources with high efficiency

We summarised in this catalogue our popular products. All our products can be offered in alternative solvents (including low VOC solvents) or at different solids contents upon request. For further information, please contact a member of our technical or sales team.



# LONG OIL

## Long Oil Alkyd Resin



### SMK-7000 SEMKYD FA 60 W 70

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / 60% / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------------|----------------|---------|--------------|-----------------------------------|--------------------|------------|
| Special Fatty Acid | ~60            | 70±2    | White Spirit | 5,5 - 7,5                         | 6 max              | 10 max     |

#### Recommended Applications

- All interior and exterior decorative paints
- Primers, undercoats and topcoats

### SMK-795 SEMKYD FA 60 W 70

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / 60% / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------------|----------------|---------|--------------|-----------------------------------|--------------------|------------|
| Special Fatty Acid | ~60            | 70±2    | White Spirit | 4 - 9                             | 7 max              | 10 max     |

#### Recommended Applications

- All interior and exterior decorative paints
- Primers, undercoats and topcoats
- More economical version; suitable for applications with lower gloss demand

### SMK-2306 SEMKYD S 64 W 70

| OIL TYPE     | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------|----------------|---------|--------------|-----------------------------|--------------------|------------|
| Soy Bean Oil | ~64            | 70±2    | White Spirit | 3-5                         | 6 max              | 10 max     |

#### Recommended Applications

- All interior and exterior decorative paints
- Primers and undercoats.

### SMK-2302 SEMKYD S 60 W 70

| OIL TYPE     | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / 60% / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------|----------------|---------|--------------|-----------------------------------|--------------------|------------|
| Soy Bean Oil | ~60            | 70±2    | White Spirit | 1,5 - 2,5                         | 7 max              | 10 max     |

#### Recommended Applications

- All interior and exterior decorative paints
- Primers and undercoats.

### SMK-2363 SEMKYD S 62 W 70

| OIL TYPE     | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------|----------------|---------|--------------|-----------------------------|--------------------|------------|
| Soy Bean Oil | ~62            | 70±2    | White Spirit | 1-3                         | 7 max              | 10 max     |

#### Recommended Applications

- All interior and exterior decorative paints
- Primers and undercoats.

### SEMKYD CFA 34 X 60 PU

|               |            |
|---------------|------------|
| Modification  | Commercial |
| Solid Content |            |
| Solvent Type  |            |
| Oil Length    |            |
| Oil Type      |            |

#### OIL TYPES

|     |                                    |
|-----|------------------------------------|
| S   | : Soy Bean Oil                     |
| FA  | : Fatty Acid                       |
| TFA | : Tall Oil Fatty Acid              |
| CFA | : Coconut Fatty Acid               |
| V   | : Vegetable Oil                    |
| DCO | : Dehydrated Castor Oil Fatty Acid |

#### SOLVENTS

|   |                |
|---|----------------|
| X | : Xylene       |
| W | : White Spirit |
| T | : Toluene      |

#### MODIFICATIONS

|    |                |
|----|----------------|
| PU | : Polyurethane |
| UR | : Urethane     |
| ST | : Styrene      |
| AC | : Acrylic      |



# MEDIUM OIL



## Medium Oil Alkyd Resin

### SMK-6000 SEMKYD FA 50 X 70

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------------|----------------|---------|----------|-----------------------------|--------------------|------------|
| Special Fatty Acid | -50            | 70±2    | Xylene   | 4 - 6                       | 6 max              | 13max      |

#### Recommended Applications

- Anticorrosive paints
- Metal surface
- Industrial varnishes and paints
- Faster drying applications (by chain stop content)

### SMK-6001 SEMKYD FA 50 W 60

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------------|----------------|---------|--------------|-----------------------------|--------------------|------------|
| Special Fatty Acid | -50            | 60±2    | White Spirit | 6 - 9                       | 6 max              | 13 max     |

#### Recommended Applications

- Anticorrosive paints
- Metal surface
- Industrial varnishes and paints
- Faster drying applications (by chain stop content)

### SMK-6048 SEMKYD FA 47 WX 60

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS              | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | ACID VALUE |
|--------------------|----------------|---------|-----------------------|-----------------------------|--------------------|------------|
| Special Fatty Acid | -47            | 60±2    | White Spirit & Xylene | 5,5 - 6,5                   | 6 max              | 14 max     |

#### Recommended Applications

- Anticorrosive paints
- Metal surface
- Industrial varnishes and paints

# SHORT OIL



## Short Oil Alkyd Resin

### SMK-4444 SEMKYD FA 43 TX 65

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS          | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE | OH (%)  |
|--------------------|----------------|---------|-------------------|-----------------------------|---------------------|------------|---------|
| Special Fatty Acid | -43            | 65±2    | Xylene or Toluene | 5 - 8                       | 6 max               | 10 max     | 2,9±0,2 |

#### Recommended Applications

- Cellulosic application
- Stoving primer systems
- Wood varnishes with hardener as 2k resin
- Topcoat paints

### SMK-3865 SEMKYD FA 38 X 65

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE | OH (%)  |
|--------------------|----------------|---------|----------|-----------------------------|---------------------|------------|---------|
| Special Fatty Acid | -38            | 65±2    | Xylene   | 5 - 7                       | 6 max               | 10 max     | 2,9±0,2 |

#### Recommended Applications

- Cellulosic Application
- Stoving primer systems
- Wood varnishes with hardener as 2k resin
- Top coat paints

# FAST DRYING

## Fast Drying Short Oil Alkyd Resin

### SMK-3332 SEMKYD S 27 X 60

| OIL TYPE    | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 ° C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|-------------|----------------|---------|----------|------------------------------|---------------------|------------|
| Soybean Oil | ~27            | 60±2    | Xylene   | 4 - 6                        | 7 max               | 10 max     |

#### Recommended Applications

- Fast drying, high quality industrial paints
- Hammertone paints

### SMK-3349 SEMKYD FA 27 X 60

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 ° C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------------|----------------|---------|----------|------------------------------|---------------------|------------|
| Special Fatty Acid | ~27            | 60±2    | Xylene   | 4 - 6                        | 6 max               | 10 max     |

#### Recommended Applications

- Fast drying, high quality industrial paints
- Hammertone paints

### SMK-999 SEMKYD FA 27 X 60

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 ° C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------------|----------------|---------|----------|------------------------------|---------------------|------------|
| Special Fatty Acid | ~27            | 60±2    | Xylene   | 4 - 8                        | 8 max               | 10 max     |

#### Recommended Applications

- Fast drying, industrial paints
- Road marking paints
- More economical version; suitable for applications with lower gloss demand

### SMK-3362 SEMKYD S 38 X 60

| OIL TYPE    | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 ° C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|-------------|----------------|---------|----------|------------------------------|---------------------|------------|
| Soybean Oil | ~38            | 60±2    | Xylene   | 3 - 5                        | 7 max               | 10 max     |

#### Recommended Applications

- Fast drying, high quality industrial paints
- Hammertone paints

### SEMKYD CFA 34 X 60 PU

Modification  
Solid Content  
Solvent Type  
Oil Length  
Oil Type  
Commercial

#### OIL TYPES

S : Soy Bean Oil  
FA : Fatty Acid  
TFA : Tall Oil Fatty Acid  
CFA : Coconut Fatty Acid  
V : Vegetable Oil  
DCO : Dehydrated Castor Oil Fatty Acid

#### SOLVENTS

X : Xylene  
W : White Spirit  
T : Toluene

#### MODIFICATIONS

PU : Polyurethane  
UR : Urethane  
ST : Styrene  
AC : Acrylic



# STYRENE

## Styrene Modified Alkyd Resin

### SMK-4300 SEMKYD S 66 X 60 ST

| OIL TYPE     | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------|----------------|---------|----------|-----------------------------|---------------------|------------|
| Soy Bean Oil | ~66            | 60±2    | Xylene   | 1-3                         | 7 max               | 10 max     |

#### Recommended Applications

- Hammertone paints
- Fast drying industrial paints

### SMK-4320 SEMKYD V 47 X 60 ST

| OIL TYPE | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|----------|----------------|---------|----------|-----------------------------|---------------------|------------|
| Veg. Oil | ~47            | 60±2    | Xylene   | 1-3                         | 7 max               | 12 max     |

#### Recommended Applications

- Hammertone Paints
- Fast drying industrial paints

### SMK-4340 SEMKYD DCO 44 X 60 STAC

| OIL TYPE       | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|----------------|----------------|---------|----------|-----------------------------|---------------------|------------|
| DCO Fatty Acid | ~44            | 60±2    | Xylene   | 2 - 4                       | 7 max               | 13 max     |

#### Recommended Applications

- Styrene acrylic modified
- Hammertone paints
- Fast drying industrial paints

### SMK-4360 SEMKYD FA 30 X 60 ST

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------------|----------------|---------|----------|-----------------------------|---------------------|------------|
| Special Fatty Acid | ~30            | 60±2    | Xylene   | 2 - 4                       | 6 max               | 10 max     |

#### Recommended Applications

- Hammertone and topcoat paints
- Fast drying industrial paints

### SMK-4365 SEMKYD TFA 46 X 60 ST

| OIL TYPE | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|----------|----------------|---------|----------|-----------------------------|---------------------|------------|
| TOFA     | ~46            | 60±2    | Xylene   | 1 - 3                       | 6 max               | 10 max     |

#### Recommended Applications

- Hammertone and topcoat paints
- Fast drying industrial paints

### SEMKYD CFA 34 X 60 PU

Modification  
Solid Content  
Solvent Type  
Oil Length  
Oil Type  
Commercial

#### OIL TYPES

S : Soy Bean Oil  
FA : Fatty Acid  
TFA : Tall Oil Fatty Acid  
CFA : Coconut Fatty Acid  
V : Vegetable Oil  
DCO : Dehydrated Castor Oil Fatty Acid

#### SOLVENTS

X : Xylene  
W : White Spirit  
T : Toluene

#### MODIFICATIONS

PU : Polyurethane  
UR : Urethane  
ST : Styrene  
AC : Acrylic

# URETHANE

## Urethane Modified Alkyd Resin



### SMK-5250 SEMKYD FA 54 W 60 UR

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------------|----------------|---------|--------------|-----------------------------|---------------------|------------|
| Special Fatty Acid | ~54            | 60±2    | White Spirit | 3 - 6                       | 6 max               | 5 max      |

#### Recommended Applications

- Yacht and parquet varnishes
- Air drying wood applications
- Industrial and marine varnishes and paints

### SMK-5350 SEMKYD FA 60 W 60 UR

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------------|----------------|---------|--------------|-----------------------------|---------------------|------------|
| Special Fatty Acid | ~60            | 60±2    | White Spirit | 2 - 3,5                     | 6 max               | 5 max      |

#### Recommended Applications

- Yacht and parquet varnishes
- Air drying wood applications
- Industrial and marine varnishes and paints
- High yellowing resistance (aliphatic NCO modified)
- High UV resistance

### SMK-5450 SEMKYD S 62 W 55 UR

| OIL TYPE     | OIL LENGTH (%) | NVM (%) | SOLVENTS     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|--------------|----------------|---------|--------------|-----------------------------|---------------------|------------|
| Soy Bean Oil | ~62            | 55±2    | White Spirit | 1 - 3                       | 6 max               | 4 max      |

#### Recommended Applications

- Yacht and parquet varnishes
- Air drying wood applications
- Industrial and marine varnishes and paints

# POLYURETHANE

## Polyurethane Modified Alkyd Resin



### SMK-0350 SEMKYD CFA 31 X 60 PU

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE | OH (%) |
|--------------------|----------------|---------|----------|-----------------------------|---------------------|------------|--------|
| Coconut Fatty Acid | ~31            | 60±2    | Xylene   | 15 - 25                     | 3 max               | 10 max     | 3±0,2  |

#### Recommended Applications

- High viscous special design
- 2K PU systems
- Single component cellulosic systems
- Stoving systems

### SMK-5170 SEMKYD CFA 29 X 70 PU

| OIL TYPE           | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE | OH (%)  |
|--------------------|----------------|---------|----------|-----------------------------|---------------------|------------|---------|
| Coconut Fatty Acid | ~29            | 70±2    | Xylene   | 8 - 11                      | 3 max               | 15 max     | 4,2±0,2 |

#### Recommended Applications

- High gloss topcoat applications
- 2K PU systems
- Single component cellulosic systems
- Stoving systems

# EPOXY ESTER



## Epoxy Ester

### SEMPOX DCO 37 X 60

| OIL TYPE       | OIL LENGTH (%) | NVM (%) | SOLVENTS | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR (50%) | ACID VALUE |
|----------------|----------------|---------|----------|-----------------------------|---------------------|------------|
| DCO Fatty Acid | ~37            | 60±2    | Xylene   | 0,7- 1,5                    | 6 max               | 2 max      |

#### Recommended Applications

- Industrial and decorative paints
- Wood paint and varnishes
- Interior and exterior paints
- Suitable for direct to metal applications

# NITROCELLULOSE



## Nitrocellulose Varnish

### SMK-NC 27

| NITROCELLULOSE TYPE | OIL LENGTH (%) | NVM (%) | SOLVENTS                     | BF VISCOSITY (25 °C / Pa.s) | GARDNER COLOR(50%) | NITROGEN CONTENT (%) |
|---------------------|----------------|---------|------------------------------|-----------------------------|--------------------|----------------------|
| H1/2 IPA            | N/A            | 27± 1   | Ethylacetate<br>Butylacetate | 1 – 2,3                     | 2 max              | ≤12,6                |

#### Recommended Applications

- Cellulosic system for coating
- Wood paints and varnishes
- Suitable for direct to metal applications
- For effect paints
- Leather and nail lacquer

### SEMKYD CFA 34 X 60 PU

Modification  
Solid Content  
Solvent Type  
Oil Length  
Oil Type  
Commercial

#### OIL TYPES

S : Soy Bean Oil  
FA : Fatty Acid  
TFA : Tall Oil Fatty Acid  
CFA : Coconut Fatty Acid  
V : Vegetable Oil  
DCO : Dehydrated Castor Oil Fatty Acid

#### SOLVENTS

X : Xylene  
W : White Spirit  
T : Toluene

#### MODIFICATIONS

PU : Polyurethane  
UR : Urethane  
ST : Styrene  
AC : Acrylic



**Semkim** since 1984

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