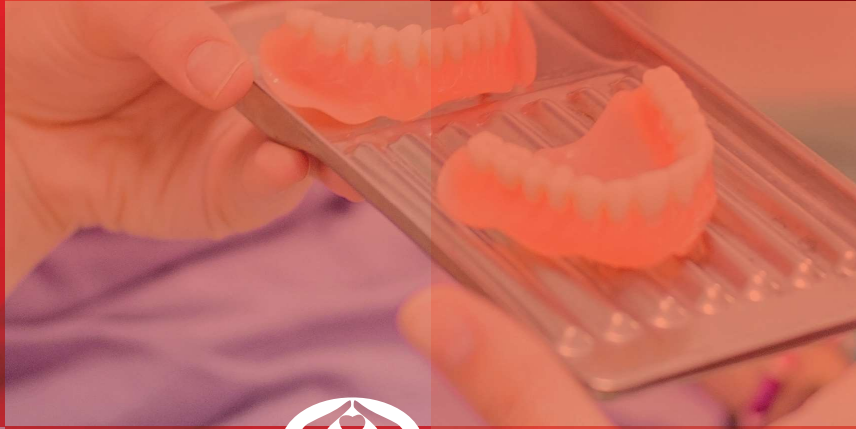




KOCA  
KİMYA VE DENTAL



akrodent®

[www.akrodent.com](http://www.akrodent.com)



## ABOUT US

KOCA Chemistry and Dental Company - akrodent is the leader manufacturer of high quality dental materials.

The akrodent brand, created by physicist Ahmet Koca with his R&D studies in 2005, is growing day by day by expanding its product range.

The production, which started with phosphate bonded investment material, electropolishing liquid, dipping hardener resin, duplicating material, gypsum isolation liquid, surface tension reducing materials in the first years, continued with the products in this catalogue.

It has become the market leader in Turkey with the products it produces using the world's best quality raw materials in its 1700 m2 production buildings.

Export started in 2017 and still exports to 12 countries.

Our products do not contain cadmium.



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## akroheat®

Heat Cure Acrylic Resin

akroheat is denture base polymer, featuring fine particle size and high molecular weight. It can be fast cured to create high quality dentures.

It is a PMMA based acrylic material used in total and partial denture applications with heat polymerization, cadmium free, no porosity.

- Excellent color stability
- High flexural strength
- Durable adhesion to acrylic teeth
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



### Shades

**Pink With / Without Vein**  
 ● 20 ● 30 ● 40

**Pink With / Without Vein**  
 ● 25 ● 35 ● 45

Clear ○

### Technical Specifications

**Powder/Liquid Ratio:** 25 gr/10 ml.

**Dough Time:** 20–30 min. (23 °C)

**Working Time:** 15 min. (23 °C)

**Polymerization Period:** 20 min. in 100 °C water

### Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

### Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

## akropress®

Pourable Type Acrylic Resin

It is a PMMA based acrylic material used in total and partial denture applications with self polymerization, cadmium free, no porosity.

akropress can be polymerized in 30 minutes using a pressure vessel.

- Excellent color stability
- High flexural strength
- Durable adhesion to acrylic teeth
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



### Shades

**Pink With / Without Vein**  
 ● 20 ● 30 ● 40

**Pink With / Without Vein**  
 ● 25 ● 35 ● 45

Clear ○

### Technical Specifications

**Powder/Liquid Ratio:** 15 gr/13 ml.

**Pour Time:** 3–5 min. (23 °C)

**Set Time:** 15 min. (23 °C)

**Polymerization Period:** 30 min. at 55 °C in 2,5 bar pressure

### Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

### Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

# akrocold®

Self Cure Acrylic Resin

akrocold produces a high clarity prosthesis, sets after a short curing cycle, and can be used for repairs, relines and additions to existing dentures.

It is a PMMA based acrylic material used in repairing full and partial dentures with self polymerization, cadmium free, no porosity.

Also suitable for extensions to dentures.

This acrylic can be polymerized in 10 minutes using a pressure vessel.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



## Shades

- Pink With / Without Vein**  
 ● 20 ● 30 ● 40
- Pink With / Without Vein**  
 ● 25 ● 35 ● 45
- Clear ○

## Technical Specifications

**Powder/Liquid Ratio:** 13 gr/ 10 ml  
**Pour Time:** 2-3 min. (23 °C)  
**Set Time:** 14-20 min. (23 °C)  
**Polymerization Period:** 10 min. at 55 °C in 2,5 bar pressure

## Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

## Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

# akrotemp®

Temporary Acrylic Resin

It is a PMMA based acrylic material used in temporary crown and bridge prosthesis with self polymerization, cadmium free, no porosity.

akrotemp can be polymerized in 10 minutes using a pressure vessel.

- Excellent color stability
- High flexural strength
- Durable adhesion to acrylic teeth
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



## Shades

- A0 ○ A1 ● A2 ● A3 ●
- B1 ● B2 ● B3 ●
- BL1 ● BL2 ● BL3 ●

## Technical Specifications

**Powder/Liquid Ratio:** 13 gr/ 10 ml  
**Pour Time:** 2-3 min. (23 °C)  
**Set Time:** 14-20 min. (23 °C)  
**Polymerization Period:** 10 min. at 55 °C in 2,5 bar pressure

## Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

## Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

## akroortho®

Orthodontics Acrylic Resin

akroortho has excellent pigment acceptance, superior clarity, and offers improved pile stability. It is a PMMA based acrylic material used in orthodontic appliances with self polymerization. akroortho orthodontics powder is available in clear. Especially suitable for the "salt and pepper" technique. Also, it is also very well suited for use with the "doughing" technique. In addition, an extensive range of colours is available, incorporated in the liquid for 250 ml bottles.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



### Shades (Powder)

- Clear ○
- White ○

### Color (Liquid)

- Blue ● Yellow ●
- Red ● Green ●
- Pink ● Purple ●
- Black ● Orange ●
- White ○

### Technical Specifications

**Polymerization Period:** 10 min. at 55 °C in 2,5 bar pressure

### Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

### Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

## akrotray®

Custom Tray Acrylic Resin

It is a PMMA based acrylic material used in tray baseplate with self polymerization, cadmium free, no porosity. akrotray can be polymerized in 10 minutes using a pressure vessel.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



### Shades

- Green ●

### Technical Specifications

**Polymerization Period:** 10 min. at 55 °C in 2,5 bar pressure

### Packing

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

# akrosoft-HC®

Heat Cure Soft Acrylic Resin

It is a HEMA based flexible acrylic material used for relining dentures in total and partial denture applications with heat polymerization, short doughing time, long working time, cadmium free, no porosity.

- Excellent color stability
- High flexural strength
- Durable adhesion to acrylic teeth
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



## Shades

**Pink With / Without Vein**  
● 20 ● 30 ● 40

**Pink With / Without Vein**  
● 25 ● 35 ● 45

Clear ○

## Technical Specifications

**Powder/Liquid Ratio:** 10 gr/10 ml

**Pour Time:** 15 min. (23 °C)

**Working Time:** 20 min. (23 °C)

**Polymerization Period:** 20 min. in 100 °C water

## Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

## Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

# akrosoft-CC®

Self Cure Soft Acrylic Resin

It is a HEMA based flexible acrylic material used for relining dentures in total and partial denture applications with self polymerization, short doughing time, long working time, cadmium free, no porosity.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



## Shades

**Pink With / Without Vein**  
● 20 ● 30 ● 40

**Pink With / Without Vein**  
● 25 ● 35 ● 45

Clear ○

## Technical Specifications

**Powder/Liquid Ratio:** 10 gr/10 ml

**Pour Time:** 15 min. (23 °C)

**Set Time:** 25 min. (23 °C)

**Polymerization Period:** 8 min.

## Powder

- 80 gr
- 500 gr
- 1000 gr
- 3500 gr
- 50 kg

## Liquid

- 50 ml
- 250 ml
- 500 ml
- 1000 ml
- 5 lt
- 200 kg

# akropmma®

Monolayer PMMA Block

Monolayered akroacryl pmma blocks are manufactured from 100% high quality and highly crosslinked polymethylmetacrylate powder and methylmethacrylate liquid raw materials for making long or short term temporary crown bridge restorations.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing



### Shades

A0 ○ A1 ● A2 ● A3 ●  
Clear ○ B1 ● B2 ● B3 ●

### Technical Specifications

**Flexural Strength:** min. 114 MPa.  
**Vickers Hardness:** min 26 HV.  
**E-Module:** min. 2771 MPa.  
**Residual monomer:** < 1%.

### Dimensions

**Diameter:** 95-98 mm Ø  
**Thickness:** 12, 14, 16, 18, 20, 22, 24, 25 mm.

# akropmma®

Multilayer PMMA Block

Multi-layered and highly cross-linked akroacryl pmma blocks bring together four perfectly blended layers, giving the restoration a truly natural look. The four-layer color gradient changes from incisal to cervical in a very natural aesthetic. The smooth color in the four-layer transition, high flexural strength and excellent gloss properties make the akropmma block a good temporary crown bridge prosthesis.

- Excellent color stability
- High flexural strength
- Shape stability
- Resistance to breakage
- Easy finishing and polishing

Multilayer



### Shades

A1 ● A2 ● A3 ●  
B1 ● B2 ● B3 ●

### Technical Specifications

**Flexural Strength:** min. 114 MPa.  
**Vickers Hardness:** min 26 HV.  
**E-Module:** min. 2771 MPa.  
**Residual monomer:** < 1%.

### Dimensions

**Diameter:** 95-98 mm Ø  
**Thickness:** 12, 14, 16, 18, 20, 22, 24, 25 mm.

## akromat®

Cad/Cam Scan Spray

akromat scan spray that offers the thinnest, smoothest and most accurate layer and it is a white, lemon flower-flavored pigment suspension used to create optical impressions for CAD/CAM restorations by matting the model surface.

Suitable for plaster die/plaster model use.

The special valve technology of the spray creates a homogeneous and thin spray film on the object to be scanned.

Homogeneous particle size.

It can be easily removed with water or compressed air.

Net: 200 ml



## akrotray-UV®

Light Cure Custom Tray Material

**akrotray-UV** Light Cure Custom Tray Material is a light cured material for the preparation of custom trays with high dimensional stability.

**akrotray-UV** is light sensitive material.

**akrotray-UV** can be cured quickly with UV or halogen light.

**akrotray-UV** is presented in the colors pink and blue.

Sheet 50 psc.



# akroresin®

3D Printing

This special resin can be used for any type of DLP or LED curing 3D printer.

For all LED/UV printers with a wavelength of 385 - 405 nm.

It has fast curing properties depending on the 3D printer used.

- Packaging: 500 gr, 1000 gr



## cast

For Dental Casting



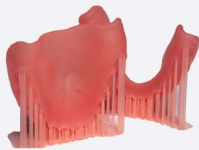
## model

For Dental Model



## denture

For Denture Base



## temporary

For Temporary Crown & Bridge



## sg

For Dental Surgical Guides



# akrozir®

Dental Zirconia Block

## Outstanding Esthetics

Translucent and high strength

## Highest Flexural Strength

Single crown to multi-unit bridges



## HT-WHITE

High flexural strength 1350Mpa, 40% translucency for the fabrication of single tooth up to multi-unit bridge frameworks.

## ST-WHITE

With 43% translucency and 1200Mpa high flexural strength for a variety of indications and processing options.

## ST-COLOR

The combination of the very high flexural strength (1100 MPa cervical, 630 MPa incisal) The smooth gradient of color and translucency makes the difference.

### Extensive Color Selection

16 colors (A1-D4)

## ST-MULTILAYER

Multifunctional esthetics.  
Multiple indications.

### Extensive Color Selection

16 colors (A1-D4)

## 3D-MULTILAYER

Translucency (43%-49%)  
Flexural strength (800Mpa-1200Mpa)

### Extensive Color Selection

20 colors (A1-D4,BL1,BL2,BL3,BL4)

### Dimensions

**Diameter:** 95-98 mm Ø

**Thickness:** 12, 14, 16, 18, 20, 22, 24, 25 mm.



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**Koca Kimya ve Dental**

**Ürün. Üret. Paz. Müh. Mim. San. Tic. Ltd. Şti.**

- 📍 **Workshop-1**  
İvedik OSB Mah. 2273 Cadde. No: 6 06378  
Yenimahalle – Ankara – TURKEY (Headquarters)
- 📍 **Workshop-2**  
İvedik OSB Mah. 2273 Cadde. No: 6 06378  
Yenimahalle – Ankara – TURKEY
- 📍 **Workshop-3**  
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