K.A.C

Kaveh Aria Chem

Adhesive Industries.

Comprehensive Catalog of PVC & UPVC Adhesives

K.A.C

A Leading Iranian Manufacturer of PVC Solvent Cements
for Pressure Pipes and Fittings Used in Water Supply,
Swimming Pool, and Sauna Systems.

kac_adhesive

https://t.me/KACpvc

www.kacigroup.ir


گواهی نامه مثبت علامت


گواهی‌نامه ثبت علامت تجاری

KAC




گواهینامه عضویت

شرکت محترم صنایع چسب آریا شیمی کاوه

به استناد مصوبه شماره ۱/۱۲/۱۶۶۸۰ مورخ ۱۳۷۷/۱۰/۱۲ شورای عالی اداری و دستورالعمل شماره ۴۰۱۲/۱ وزارت صنعت، معدن و تجارت و تأیید کمیسیون مربوطه و با توجه به اساسنامه خانه صنعت و معدن ایران و طبق ماده ۶ اساسنامه خانه صنعت، معدن و تجارت استان مرکزی عضویت آن شرکت در این خانه از تاریخ ۱۴۰۲/۰۳/۱۰ به مدت یک سال تمدید می گردد.

رئیس خانه صنعت، معدن و تجارت استان مرکزی
منوچهر توسلی



K.A.C (Kaveh Ariachem Adhesive Industries) is one of Iran's leading manufacturers of industrial, construction, and general-purpose adhesives. With more than three decades of experience, the company proudly manufactures and supplies high-quality products using advanced production technologies in compliance with national and international standards, serving both domestic and global markets.

K.A.C

A Leading Iranian Manufacturer of PVC Solvent Cements for Pressure Pipes and Fittings Used in Water Supply, Swimming Pool, and Sauna Systems.


لوح بلورین
IHE
IRAN
Hvac&R
2024
۹۸
BUSHEHR
پانزدهمین نمایشگاه
صنعت ساختمان
تاسیسات و صنایع وابسته
15
BEST COMPANY
شرکت صنایع چسب آریا شیمی کاوه
واحد نمونه صنعتی
۱۴۰۱
با سپاس از مشارکت
صنایع چسب آریا شیمی کاوه
Organized by:
نمانگر
تاسیسات

TOPKIT

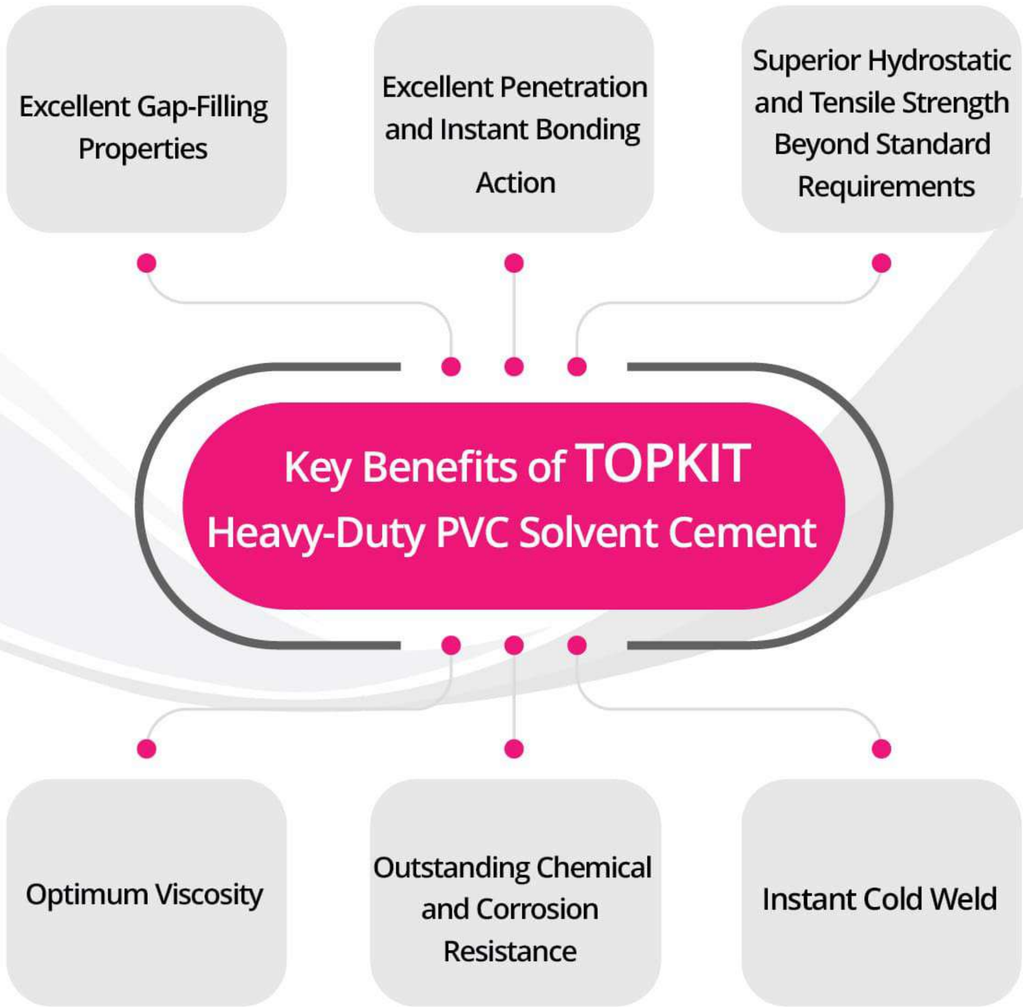
Heavy-Duty PVC Solvent Cement for Drainage Systems

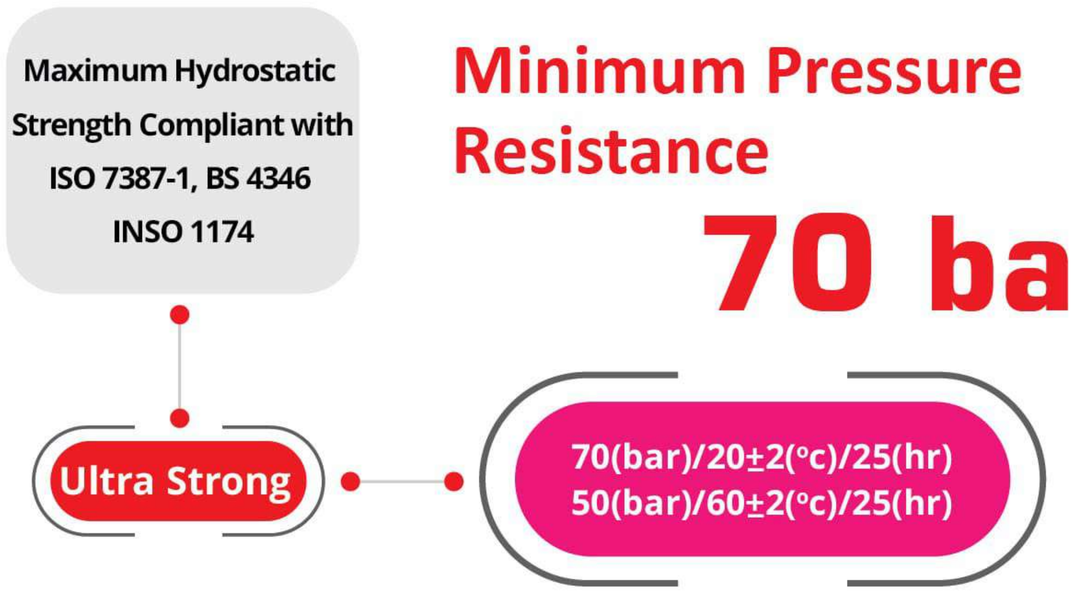
Premium

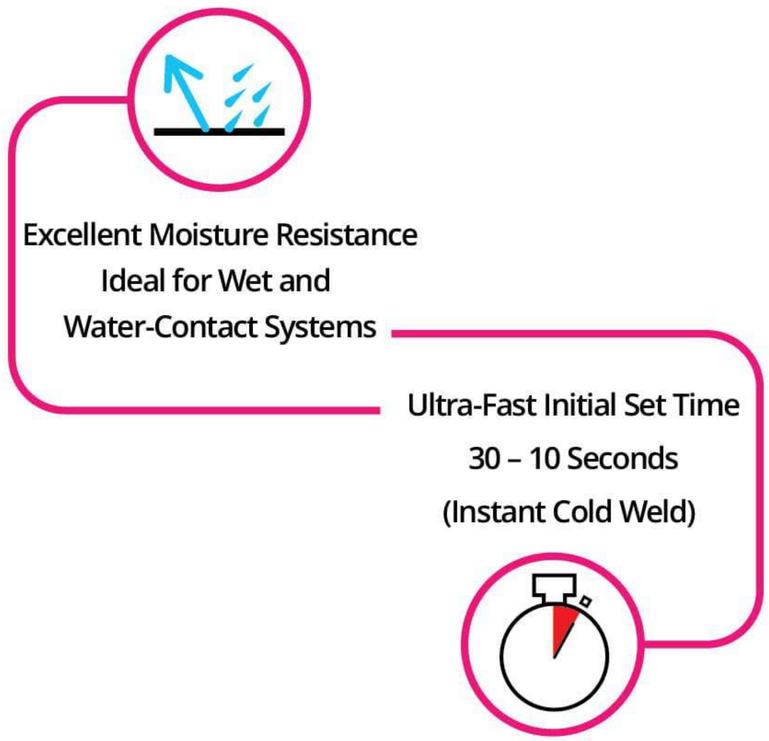
Manufactured using an advanced, high-performance formulation, TOPKIT PVC Solvent Cement is produced in accordance with the Iranian National Standard No.1174. The product consistently exceeds the quality control requirements specified by the standard, ensuring outstanding performance and reliability.

Its specially developed formulation penetrates the molecular structure of PVC surfaces, softening and fusing the mating surfaces into a single homogeneous bond. Once fully cured, it forms a permanent, integral joint that is often stronger than the pipe itself.

Thanks to its ultra-fast chemical action, TOPKIT creates a true polymer weld (cold weld) at the joint, producing a permanent bond that cannot be separated without damaging the pipe or fitting.







Available Packaging

TOPKIT Heavy-Duty PVC Solvent Cement (K-719)

Available Packaging	Units per Carton	Volume	
Aluminum Tube	pcs 36	cc 100	
	pcs 36	cc 100	Project Pack (Economical)
Metal Can	pcs 24	cc 260	
	pcs 12	cc 1000	Easy Open
	pcs 12	cc 1000	
Metal Can	pcs 4	cc 3000	
Metal Can	–	cc 16000	



Technical Specifications

TOPKIT Heavy-Duty PVC Solvent Cement (K-719)

Appearance	Clear, Homogeneous Liquid
Density at 25°C	0.93 gr/cm³
Viscosity	7000-2000 cps
Solids Content	Min. 22%
Shear Strength	1Mpa ≤ After at least 1 hour 3Mpa ≤ After at least 24 hour 5Mpa ≤ After at least 336 hour

Project Pack
REDUCE
REUSE
RECYCLE
Love the Earth!

Designed with removable **cardboard packaging** to reduce costs for consumers and help protect the environment.



Cardboard packaging can be removed upon customer request.
(The internal carton dividers are made from recycled materials to support environmental sustainability).

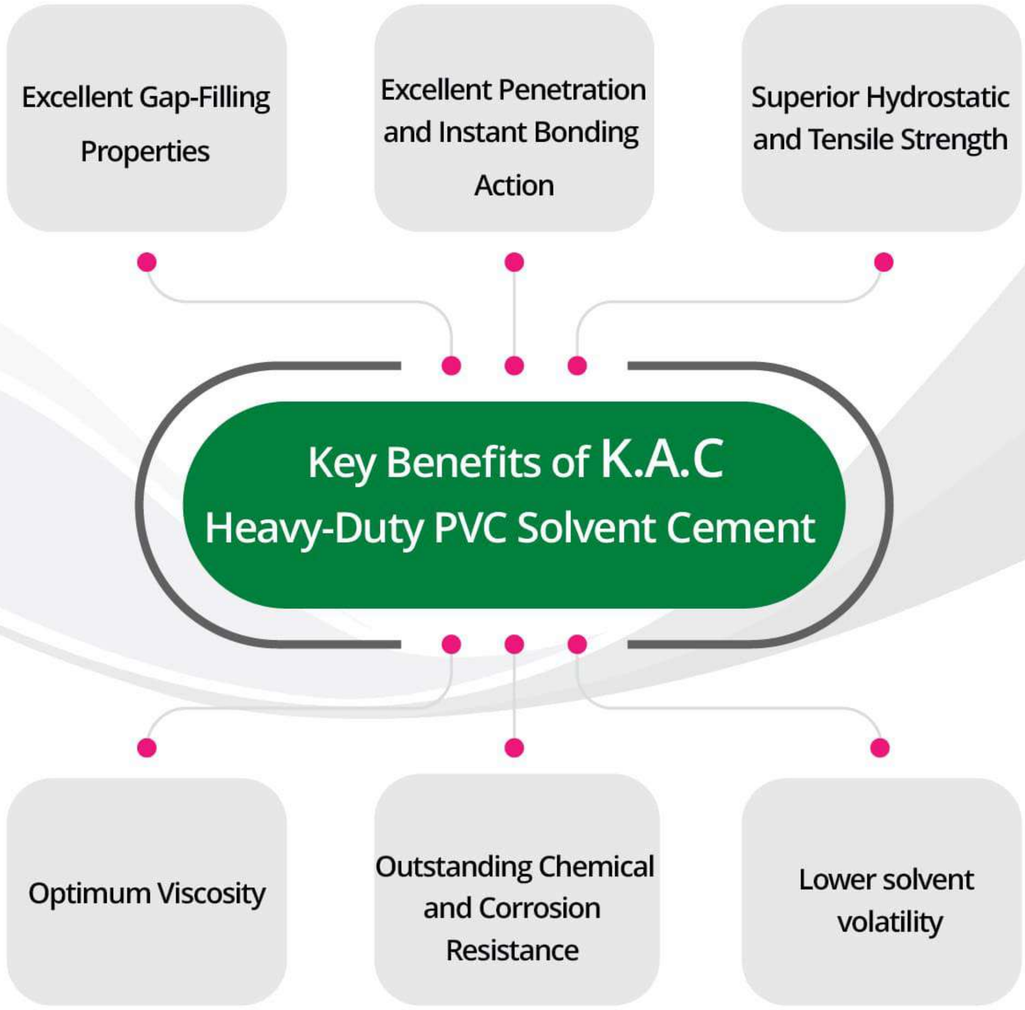
- Economical and Cost-Effective
- Suitable for construction projects

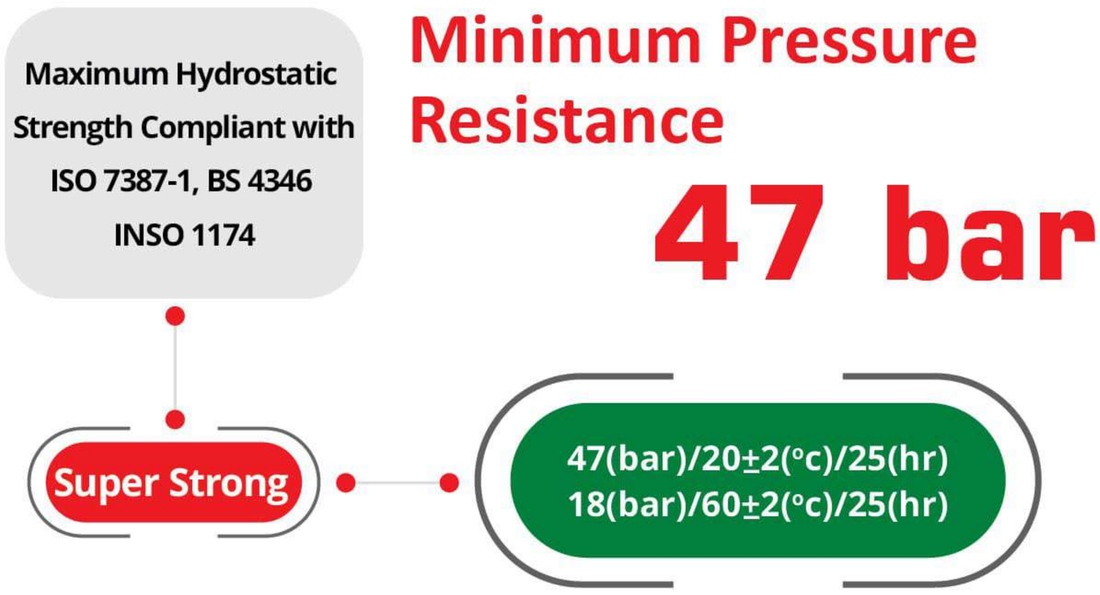
K.A.C

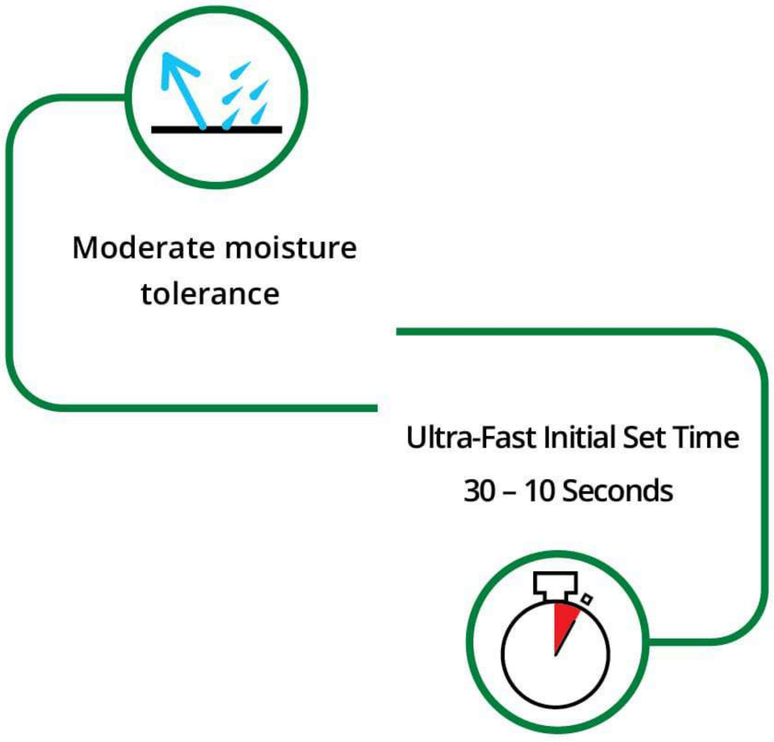
Heavy-Duty PVC Solvent Cement

Innovative

This adhesive is manufactured based on the Iranian National Standard No.1174, using an advanced formulation and outstanding quality. Its formulation is designed to penetrate the molecular structure of polyvinyl chloride (PVC) surfaces, causing them to dissolve and ultimately fuse together. After drying, it creates a seamless and inseparable joint. With its exceptionally fast reaction at the bonding area, K.A.C creates a polymer weld (cold weld) that forms a permanent connection and cannot be separated.







Available Packaging

K.A.C Heavy-Duty PVC Solvent Cement

Available Packaging	Units per Carton	Volume	
Aluminum Tube	pcs 36	cc 100	
	pcs 36	cc 100	Project Pack (Economical)
Metal Can	pcs 24	cc 260	
	pcs 24	cc 260	Easy Open



Project Pack
REDUCE
REUSE
RECYCLE
Love the Earth!

Cardboard packaging can be removed upon customer request.
(The internal carton dividers are made from recycled materials
to support environmental sustainability).

- Economical and Cost-Effective
- Suitable for construction projects

Technical Specifications

K.A.C Heavy-Duty PVC Solvent Cement

Appearance	Clear, Homogeneous Liquid
Density at 25°C	0.93 gr/cm³
Viscosity	7000-2000 cps
Solids Content	Min. 22%
Shear Strength	1Mpa ≤ After at least 1 hour 2/7Mpa ≤ After at least 24 hour 5Mpa ≤ After at least 336 hour

LOW VOC

Innovation in Production

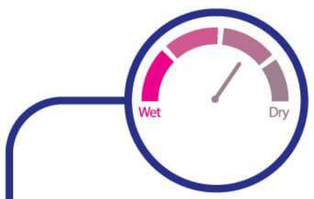


TOPMAX PLUS+
Heavy-Duty PVC Solvent Cement

Cost-Effective

TOPMAX PLUS+ is an exceptionally strong PVC solvent cement with an optimized initial set time designed for easier application. As a super PVC solvent cement, TOPMAX PLUS+ is manufactured with a modified formulation developed by K.A.C's R&D department in accordance with INSO 1174, BS 4346-3, and ISO 7387 standards.

One of its key advantages is providing installers with extended working time for precise angle adjustment during assembly, easier application, and reduced adhesive odor.



Extended Initial Drying Time While Maintaining Quality for Easier Application

Optimized Initial Set Time for Easier Application 60–30 seconds depending on the type of fittings



Key Benefits of TOPMAX+ Heavy-Duty PVC Solvent Cement

- Maximum Hydrostatic and Tensile Strength Compliant with International Standards
- Outstanding Chemical and Corrosion Resistance
- Extended Working Time for Easier Assembly
- Longer Cold Welding Time for Easier Assembly
- Optimal Penetration and Reactivity
- Lower solvent volatility (Reduced Odor)

LOW VOC

Lower solvent volatility = Reduced Odor

Available Packaging

TOPMAX PLUS⁺ Heavy-Duty PVC Solvent Cement

Available Packaging	Units per Carton	Volume
Metal Can	pcs 24	cc 260
Metal Can	pcs 4	cc 3000
Metal Can	–	cc 16000



Hydrostatic Pressure Resistance in Compliance with INSO1174 Standard

Maximum Pressure Resistance

47 bar

Max Strong

47(bar)/20±2(°c)/25(hr)
18(bar)/60±2(°c)/25(hr)

Technical Specifications

TOPMAX PLUS⁺ Heavy-Duty PVC Solvent Cement

Appearance	Clear, Homogeneous Liquid
Density at 25°C	0.92 gr/cm³
Viscosity	5000-2000 cps
Solids Content	Min. 18%
Shear Strength	1Mpa ≤ After at least 1 hour 2/5Mpa ≤ After at least 24 hour 5Mpa ≤ After at least 336 hour

Note: One of the key features of TOPMAX PLUS⁺ is its optimized initial setting and drying time. It provides installers with extended working time for precise adjustment and assembly, without any compromise in adhesive quality or bonding strength.

POLYFIX

PVC Adhesive

General Purpose

This high-quality PVC adhesive is suitable for bonding thin PVC sheets and pipes used in temporary or permanent installations, such as drainage and ventilation systems in buildings and tunnels, where pressure resistance is not required. For drainage or ventilation systems using large-diameter or thick-wall pipes, or for pipes installed at considerable depths underground and exposed to external pressure, the use of high-pressure PVC solvent cements is recommended.

Maximum Tensile Strength

STRONG

The Best Choice for General Applications

Key Benefits of POLYFIX PVC Adhesive

- High Viscosity
- Superior Gap-Filling Capability
- Superior Tensile Strength
- Long-Lasting Performance
- Optimal Initial Set Time
- Toluene-Free

Available Packaging
POLYFIX K-707 PVC Adhesive

Available Packaging	Units per Carton	Volume	
Aluminum Tube	pcs 36	cc 100	
	pcs 36	cc 100	Project Pack (Economical)



Project Pack
REDUCE
REUSE
RECYCLE
Love the Earth!

Cardboard packaging can be removed upon customer request.
(The internal carton dividers are made from recycled materials
to support environmental sustainability).



Technical Specifications
POLYFIX K-707 PVC Adhesive

Appearance	Clear, Homogeneous Liquid
Density at 25°C	0.83 gr/cm^3
Viscosity	4500-3000 cps
Solids Content	Min. 16%
Shear Strength	1/8Mpa ≤ After at least 2 hour

K.A.C

HANDY PACK

(Professional Installer Kit)

All in One

K.A.C Handy Pack is a unique and practical package designed to make installation easier for professionals. It includes all the essential materials required for professional PVC solvent cement application.

The package contains Cleaner, Primer, and Gray PVC Solvent Cement in 473 ml packaging, a professional tool kit (large-size brush and stainless-steel spatula), a special can opener, and adhesive application gloves.





LOW VOC

DON'T FORGET CLEANER & PRIMER

CLEAN	PRIME	WELD

For a strong and durable bond, always use K.A.C Cleaner and Primer.


KAC PVC CEMENT
PVC Solvent Cement Applicator
(ALL IN ONE PACK)
K.A.C
K.A.C P.V.C Clear Cleaner KC-721
K.A.C P.V.C PRIMER PURPLE KP-721
K.A.C P.V.C CEMENT GRAY K-721
CLEAN
PRIME
WELD
Can Opener
Pars Artist NO.17

K.A.C
KC-721
PVC Clear Cleaner

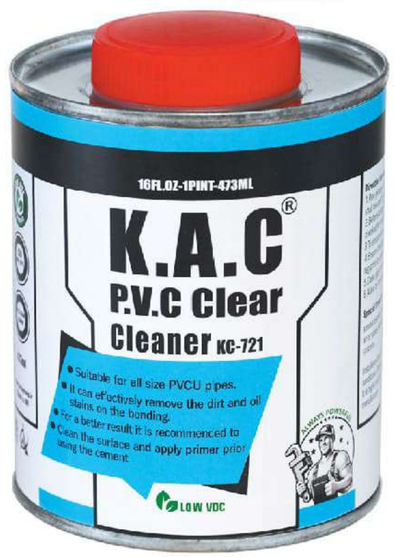
1 K.A.C KC-721 PVC Clear Cleaner

K.A.C KC-721 PVC Clear Cleaner is a clear, free-flowing, multi-purpose solvent-based cleaner designed for use with K.A.C PVC solvent cements. It is specially formulated to remove grease, oil, and other surface contaminants from PVC and CPVC bonding surfaces, ensuring proper surface preparation before bonding.



Technical Specifications
KC-721 P.V.C Clear Cleaner

Appearance	**Clear Liquid**
Specific Gravity	**0.87+0.05 gr/cm³**
Viscosity	**Water-Like**



Before using K.A.C KC-721 Cleaner, the pipe and fitting must be properly cut.

This product is recommended for use only as a cleaner for PVC pipes and fittings. For proper preparation of bonding surfaces before applying adhesive, K.A.C KP-721 Primer should be used.

Avoid allowing K.A.C KC-721 Cleaner to accumulate inside the pipe.

Once K.A.C KC-721 Cleaner has dried, continue with the remaining preparation and bonding procedures.

Available Packaging

KC-721 P.V.C Clear Cleaner

Available Packaging	ml حجم
Carton: 24 pcs	236
Carton: 12 pcs	473
Carton: 12 pcs	947

Includes Protective Work Gloves

Brush Cap | **Metal Can**

KC-721
P.V.C Clear Cleaner

*K.A.C KC-721 Cleaner can be produced in various sizes with an Easy Open cap upon customer request.



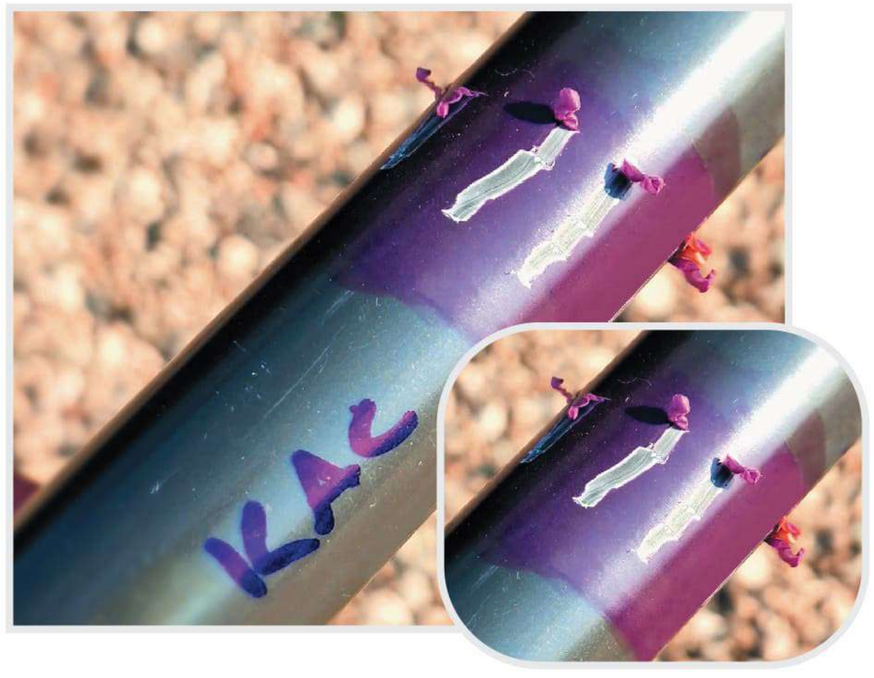
K.A.C
KP-721
PVC Purple Primer

2 K.A.C KP-721 PVC Purple Primer

K.A.C Primer KP-721 is a purple solvent-based primer specially formulated for preparing the surfaces of PVC and CPVC pipes and fittings prior to the application of solvent cement. By penetrating the pipe and fitting surfaces, KP-721 Primer softens the material and enhances the penetration of the solvent cement into the joint, resulting in a stronger and more reliable bond.

Technical Specifications
KP-721 P.V.C Purple Primer

Appearance	**Purple Liquid**
Specific Gravity	**0.85+0.05 gr/cm³**
Viscosity	**Water-Like**



Available Packaging

KP-721 P.V.C Purple Primer

Available Packaging	Volume (mL)
Carton: 24 pcs	236
Carton: 12 pcs	473
Carton: 12 pcs	947

Includes Protective Work Gloves

Brush Cap | **Metal Can**

KP-721
P.V.C Purple Primer

*K.A.C KP-721 Primer can be produced in various sizes with an Easy Open cap upon customer request.





K.A.C
K-721
Gray PVC Cement

UPVC

3 K.A.C K-721 Gray PVC Cement

K.A.C K-721 Gray PVC Solvent Cement is a high-quality, industrial-grade thixotropic solvent cement featuring fast initial setting, excellent gap-filling properties, and outstanding hydrostatic and mechanical strength. It is specifically designed for joining UPVC pipes and fittings used in pressurized potable water systems, irrigation networks, landscaping, swimming pools and saunas, PVC ducting, drainage systems, and industrial ventilation systems.

Technical Specifications
K-721 Gray PVC Cement

Appearance	**Gray, Homogeneous Liquid**
Density	**0.94±0/05 gr/cm³ ASTM D 1875**
Viscosity	**5000-2000 cps @25°C**
Solids Content	**Min. 23%**
Shear Strength	**2Mpa ≤ After at least 1 hour** **4/5Mpa ≤ After at least 24 hour** **6/5Mpa ≤ After at least 336 hour**

Maximum Hydrostatic Pressure Resistance

70(bar)/20±2(°c)/25(hr)
50(bar)/60±2(°c)/25(hr)

Ultra Strong

Initial Set Time
30 –10 seconds

Available Packaging
K-721 Gray PVC Cement

Contents Complete Tool Kit + Can Opener + Work Gloves

Available Packaging	Volume (mL)
Carton: 24 pcs	236
Carton: 12 pcs	473
Carton: 12 pcs	947

Contents: Brushes (one per can) + Work Gloves

Carton: 24 pcs	236
Carton: 24 pcs	473
Carton: 12 pcs	947

Metal Can

K-721
Gray PVC Cement
70 Bar

K-721 ECO
Gray PVC Cement
70 Bar (Economical Packaging)



- Manufactured in Compliance with ISO 7387-1, BS 4346, INSO 1174
- ASTM D1875
- ASTM D1084
- PQA – Construction Industry Quality Award
- ISO 9001:2015 Certified

K.A.C
K-719
Clear PVC Cement

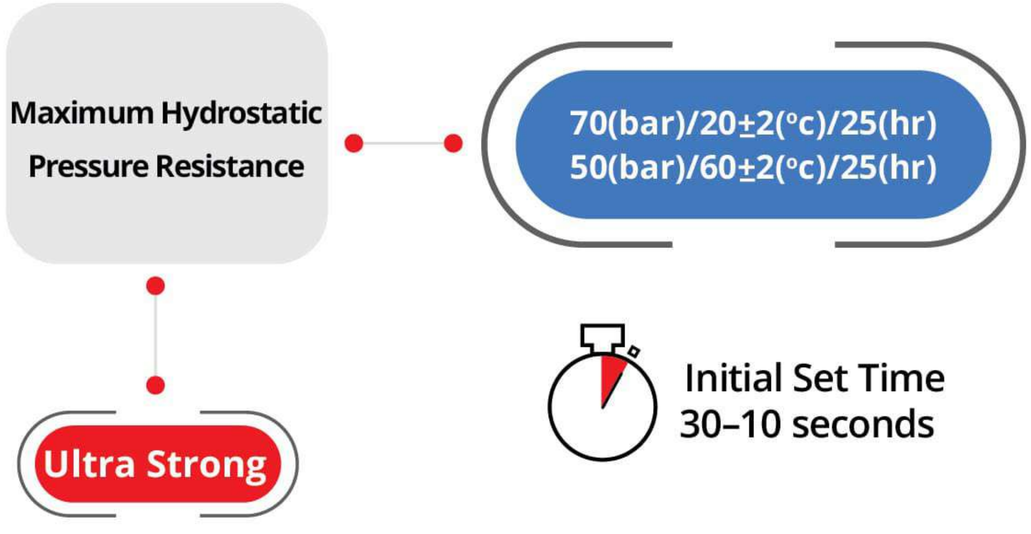
UPVC

4 K.A.C K-719 Clear PVC Cement

K.A.C K-719 Clear PVC Solvent Cement is a high-quality, industrial-grade thixotropic solvent cement featuring fast initial setting, excellent gap-filling properties, and outstanding hydrostatic and mechanical strength. It is specifically designed for joining UPVC pipes and fittings used in pressurized potable water systems, irrigation networks, landscaping, swimming pools and saunas, PVC ducting, drainage systems, and industrial ventilation systems.

Technical Specifications
K-719 Clear PVC Cement

Appearance	Clear Homogeneous Liquid
Density	0.94±0/05 gr/cm³ ASTM D 1875
Viscosity	5000-2000 cps @25°C
Solids Content	Min. 22%
Shear Strength	2Mpa ≤ After at least 1 hour 4/26Mpa ≤ After at least 24 hour 6/36Mpa ≤ After at least 336 hour



Available Packaging
K-719 Clear PVC Cement

Contents Complete Tool Kit + Can Opener + Work Gloves

Contents: Brushes (one per can) + Work Gloves

Available Packaging	Volume (mL)
Carton: 24 pcs	236
Carton: 12 pcs	473
Carton: 12 pcs	947

Available Packaging	Volume (mL)
Carton: 24 pcs	236
Carton: 24 pcs	473
Carton: 12 pcs	947

Metal Can

K-721
Clear PVC Cement
70 Bar

K-721 ECO
Clear PVC Cement
70 Bar (Economical Packaging)



- Manufactured in Compliance with ISO 7387-1, BS 4346, INSO 1174
- ASTM D1875
- ASTM D1084
- PQA – Construction Industry Quality Award
- ISO 9001:2015 Certified

PVC Pipe and Fitting Bonding Guide

Step 1 Cutting

Carefully mark the required cutting point on the pipe and cut it using a dedicated UPVC pipe cutter. This ensures that no burrs remain at the cutting edge.



Step 2 Beveling

Using a beveling tool, bevel the bonding area to a length of 3–4 mm. The angled edge created by the beveling tool allows the adhesive to flow smoothly between the pipe and fitting, preventing the adhesive from being pushed out of the joint area.



Step 3 Sanding

To improve adhesive penetration, sand the bonding surfaces using fine-grit sandpaper. Make sure that sanding is performed only on the areas of the pipe and fitting where adhesive will be applied.



Step 4 Cleaning

Clean the outer surface of the pipe and the inner surface of the fitting using a cleaner. The cleaner removes any dirt, grease, and contaminants from the surfaces and helps improve adhesive penetration.



Step 5 Priming

Apply primer to soften the outer surface of the pipe and the inner surface of the fitting, improving adhesive penetration and increasing joint strength. The primer enhances the penetration of the adhesive into the depth of the pipe and fitting, creating a deeper solvent weld at the joint.



Step 6 Applying Adhesive

In this step, first apply adhesive to the inner surface of the fitting using a suitable brush. Then immediately apply adhesive to the pipe surface, ensuring that the adhesive evenly covers the entire bonding surfaces of both the pipe and fitting.



Step 7 Assembly

Immediately insert the pipe into the fitting and rotate it ¼ turn until it reaches the stop point inside the fitting. This ensures that a small amount of adhesive is evenly distributed around the joint, preventing the formation of any voids or air bubbles. The golden assembly time for bonded components depends on environmental conditions and is a maximum of 20 seconds.



Important Note Due to the corrosive nature of the adhesive, ensure that no excess adhesive accumulates inside the fitting after pipe assembly. For pressure testing of the system, allow a waiting period of 8–24 hours.

Note Please note that the times provided in this catalog depend on environmental conditions as well as the type of pipes and fittings used, and may vary accordingly.

Recommendations

1. When working outdoors, it is recommended to store pipes and fittings in a shaded area. In hot conditions and under direct sunlight, cool the pipes and fittings before adhesive application to reduce solvent evaporation from the adhesive.

2. The initial set time of the adhesive is inversely related to ambient temperature. As the ambient temperature increases, the initial set time decreases; conversely, colder conditions require a longer time for initial drying.

3. Follow the instructions provided on the product label and always use appropriate personal protective equipment (PPE), such as a mask, safety gloves, safety glasses, etc. Never apply adhesive in poorly ventilated areas. Strictly avoid open flames and smoking in the work area, as vapor released from the adhesive and solvent may cause fire.

4. Proper storage conditions can extend the service life of the product. By following the recommended storage guidelines, the product can be stored and used for an extended period without any reduction in quality.

5. Testing PVC and CPVC systems using compressed air is strictly prohibited. For final system inspection, always use pressurized water flow. In addition to system verification, this process helps flush out the system and remove any residual vapors generated during the adhesive application process.

K.A.C Kaveh Aria Chem
PRODUCT OVERVIEW

TOPKIT
High Pressure PVC Cement — Ultra Strong



Packaging

Tube(100cc)
Eco Tube(100cc)
Metal Can(260cc, 1000cc)
Metal Gallon(3000cc)
Metal Container(16000cc)

Features

✓ Initial setting speed Super 30-10 seconds (instant cold welding)

✓ Very high compatibility with humidity

K.A.C
High Pressure PVC Cement — Super Strong



Packaging

Tube(100cc)
Eco Tube(100cc)
Metal Can(260cc)
Easy Open Metal Can (260cc) Eco

Features

✓ Initial setting speed Super 30-10 seconds (instant cold welding)

✓ Very high compatibility with humidity

TOPMAX PLUS+
High Pressure PVC Cement — Max Strong



Packaging

Metal Can(260cc)
Metal Gallon(3000cc)
Metal Container(16000cc)

Features

✓ Initial setting speed Adjusted for ease of use 60-30 seconds depending on the type of connection.

✓ Increase initial drying time While maintaining quality for ease of application.

POLYFIX
Low Pressure PVC Adhesieve — Strong



Packaging

Tube(100cc)
Eco Tube(100cc)

Features

✓ The best choice for general use

✓ Toluene Free

K.A.C **KC-721**

Clear Cleaner



Packaging

Metal Can(236ml,473ml, 947ml)

*Easy Open Metal Can Eco **(by order)**

Features

✓To remove grease, oil and any type of contamination from PVC and CPVC surfaces.

K.A.C **KP-721**

Purple Primer



Packaging

Metal Can(236ml,473ml, 947ml)

*Easy Open Metal Can Eco **(by order)**

Features

✓Softening of surfaces and increasing the penetration of solvent adhesive deep into the joint.

K.A.C **K-719 / K-721**

Gray / Clear PVC Cement — Ultra Strong



Packaging

Metal Can(236ml,473ml, 947ml)

Easy Open Metal Can Eco(236ml,473ml, 947ml)

Features

✓ Strong Adhesion
✓ Quick Setting
✓ Easy to Apply
✓ High Resistance to Pressure and Leakage
✓ Durable and Long Lasting

Handy Pack K.A.C

Cleaner, Primer, Gray Cement — All in One



Packaging

Metal Can(473ml) include cleaner, primer and gray adhesive, professional tool pack (large brush+steel spatula), special can opener and special adhesive gloves.

Features

✓Designed for ease of use by installers

*Easy Open Metal Can Eco **(by order)**

Unit 241, 2nd Floor, No. 14, Corner of 19/1 Alley, Ebne Sina St.,
Yousef Abad, Tehran, Iran

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