

*Azin Polymer Sepahan*  
*Chemical Industrial*





**Azin Polymer** Sepahan  
CHEMICAL INDUSTRIES

## ABOUT US

Azin polymer sepahan (APS co) chemical complex was established in 2014 in isfahan, iran. the main activity is producing polyurethane adhesives such as food package laminate adhesive (solventless and solvent base), rubber granular adhesive , ... and all kind of polyester polyols using in polyurethane product. APS co reseach teams has more than 10 master and PHD employee working on new product and application for polyurethane technology.



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### WEB:

www.apspolymer.com



# PRODUCTS

InfoGraphic

<b>ADHESIVES</b>	<b>PU FOAM</b>	<b>PU PREPOLYMER</b>	<b>POLYOLS</b>
<p><i>Food Packaging Laminate Adhesives</i> Solvent base Solvent less</p> <p><i>Industrial Adhesives</i> Plasto Foam Filter Adhesives Rubber Granular Adhesive Parket Adhesive</p>	<p><i>Air Filter Foam Resin</i></p>	<p><i>N-65 (desmodour)</i></p> <p><i>ADR12T NDP-101</i></p>	<p><i>Pol20SEDTPA Pol20SEDNTPA Pol80IEDTPA Pol80IEDNTPA Pol20LADRD Pol7LADTD Pol12LEDPD</i></p>

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# Adhesives

## Food Packaging Laminate Adhesives

### Solvent Base Food Packaging Laminate Adhesives



These kind of polyurethane adhesive are widely used in manufacturing of food packaging Laminates.

Product Code (COMPA)	MPSBL	HPSBL	HHP+SBL
Description	Medium Performance Solvent Base Laminate	High Performance Solvent Base	High High Performance Solvent Base Laminate
Solid Content %	85%	75%	65%
Applications	Transparent and Metalize Compound	Transparent, Metalize and Aluminum	Hot Filling Aluminum Compound
Mixing Ratio(A:B)	5:1	5:1	5:1
B component (Hardener)	NDP-100	NDP-65	NDP-65
Standard	HACP 51107001	HACP 51107001	HACP 51107001



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# Adhesives

## Food Packaging Laminate Adhesives

### Solvent Less Food Packaging Laminate Adhesives



This kind of product is based on blocked MDI for all kind of laminate compounds with thermal stability of at least 30 min in 100 °C and standard No:HACPS1107001

HPSFL	COMPA	COMPB
Type	Block isocyanate	Polyol
Color	yellow	Pale yellow
Solid Content %	100%	100%
Mixing Ratio(mass)	100	90-100
Coating Temp (°C)	35-45	35-45



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# Adhesives

## Industrial Adhesives

### Plasto Foam Adhesives

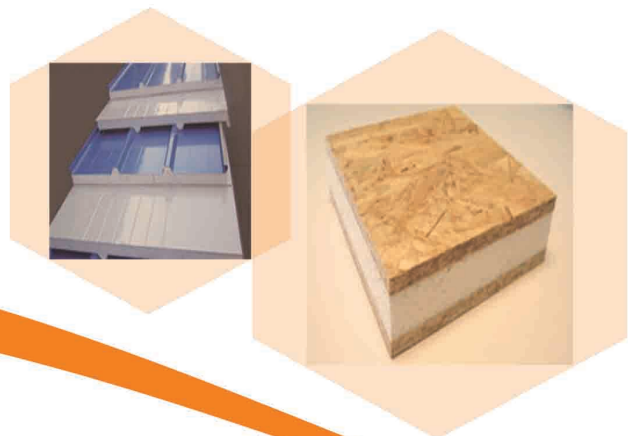


These kind of products are 2component polyurethane adhesive with very strong bonding to all substrates such as polymeric, foams, metallic, mineral, surfaces, leather, MDF, wood and ..... with high temperature and chemical (solvent, acid and bases media).

Resistance these products are designed to any uses (with machine and hand) in 3 grades.

ATDT700 and ATDT7011 are designed to use with machine with different Gel time and ATDT7012 is designed to use with hand

Product Code	ATDT700	ATDT7011	ATDT7012
Viscosity @25°C cps	800-900	1500-1700	14000
Hardener	NDP-100	NDP-100	NDP-100
Mixing Ratio	1:1	3:2	5:1
Gel time	50-60 s	5-10 min	30-40 min
Tack free time	1.5-2 min	30-40 min	After 3 hr
Service temp	-30-120°C	-30-120°C	-30-120°C
Packaging	220 kg/ barrel	220 kg/ barrel	220 kg/ barrel
Shelf life	1 year	1 year	2 year



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### Filter Adhesives



This kind 2 componet pu product is specially designed for all kind of air and oil filters with very strong bonding and thermal resistance and very good chemical resistance such as solvent ‘oil.....’ in to grade for using with machine (continues) and hand (discontinues)

Product Code	M17M APS COTOL	M17M APS COTOL
Type	Machine use	Handly use
Hardener	NDP-100	NDP-100
Mixing Ratio(mass)	100/30	100/(20-25)
Pot Life(min)	1-2 min	30-40 min
Storage temp(°C)	20-30 °C	20-30 °C
Shelf life	2 year	2 year
Packaging	20 kg/ barrel	20 kg/ barrel



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# Adhesives

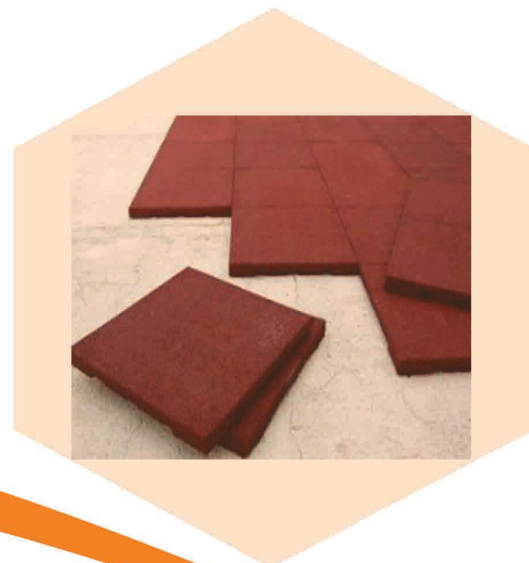
## Industrial Adhesives

### Rubber Granular Adhesives



These kind of one component pu adhesives are specially designed for binders with hot press and cold press method in two grades .

Product Code	APS ADR12T85	APS ADR12T100
Type	1 Comp pu Adhesive	1 Comp pu Adhesive
Curing Mechanism	Moisture and Thermal	Moisture and Thermal
Solid Content	85%	100%
Viscosity @ 25°C cps	1700-1900	14000
NCO Content %	9-9.5%	10.5-11%
Shelf life	6 months	6 months
Packaging	220 kg/ barrel	220 kg/ barrel



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# Adhesives

## Industrial Adhesives

### Parquet Adhesive



This is a 2-component PU Adhesive specially designed for agglutination of all kinds of parquets and carpets (prc. leather. mdf. paper. Rubber. wood.....) with a good thermal and solvent resistance in 2 grades with different hardness.

Product Code	APS ADR12T85	APS ADR12T100
Hardness	70 shore A	90 shore A
Mixing Ratio(A:B)mass	4:1	5:1
Gel time	30 min	30-40 min
Packaging	20 kg/ barrel 5 kg/ barrel	14000
shelf life	2 years	2 years

### PU FOAM



#### Air Filter Foams Resin

<b>Color</b>	ORANG
<b>MAXING RATIO (POLYOL:ISO)</b>	3:1
<b>HARDNESS</b>	45-50
<b>FOAM DENSITY</b>	350
<b>GEL TIME (S)</b>	60-70
<b>DEMOULDING TIME(MIN)@ 25 °C</b>	7-10 min
<b>STORAGE</b>	25-30 °C
<b>PACKAGING</b>	20kg,220kg/ barrel
<b>SHELF LIFE</b>	9 months



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# PU PREPOLYMERS

## Polyurethane Prepolymers



These series of product are polyol modified isocyanate which can be used directly as curing agent and hardener and adhesives.

Product Code	N-65	ADR12T	NDP-101
Type	TDI-Polyol modify	MDI-Polyol modify	MDI-Polyol modify
Class	Rigid	soft	Semi Rigid
Solvent	Ethyl Acetate 65%	Customer Adjust	Solvent free
NCO%	10.5 %	8-12 %	11-17 %
Color	Color less	Yellow	Yellow
Functionality	3	201-202	202-204
Reactivity	Medium	High	Low
packaging	220 kg/ barrel	220 kg/ barrel	220 kg/ barrel
shelf life	6 months	6 months	6 months
Storage temp(°C)	20-30 °C	20-30 °C	25-35 °C



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# POLOYOLS

## POLOYOLS Table

Product	POL20 SEDTPA	POL20 SEDNTPA	POL 80 IEDTPA	POL80 IEDNTPA	POL20 LADRD	POL7 LATDT	POL12 LEDPD
<b>Molecular</b>	2000	2000	8000	10000	2000	750	1200
<b>Type</b>	Aliphatic/ Aromatic	Aliphatic/ Aromatic	Aliphatic/ Aro- matic	Aliphatic/ Aromatic	Aliphatic	Aromatic	Aliphatic
<b>Acid value Mgkoh/g</b>	<5	<2	<2	<1	<5	<2	<5
<b>Alt value Mgkoh/g</b>	53-59	53-59	10-12	10-12	53-57	150-155	73-79
<b>Functionality</b>	2.2	2	2.1	2	2	2	2.4-2.7
<b>Applications</b>	Adhesives, Coating, Rigid and semi Rigid foams, printing ink	Adhesives, Coating, Printing ink, Tpu Elastomers	Adhesives, Hot melt, Coating	Adhesives, Hot melt, Coating	Foams, Adhesives, Coating, Tpu elastomers	Foams, Adhesives	Coating, Adhesives Coating



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