

# COLTECH A 121

TECHNICAL DATA SHEET  
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## Single Component Polyurethane Adhesive Low Viscosity

### Product description

COLTECH A 121 is a single component, low viscosity, elastic, low-foaming, moisture curing polyurethane adhesive for textile / foam laminating.

It provides excellent elasticity, water resistance, impact resistance, durability and chemical resistance properties with minimum shrinkage.

COLTECH A 121 can be applied manually (trowel, roller, etc) or by airless spraying equipment.

Cures by reaction (cross linking) with surface and air moisture.

### Advantages

- Low Foaming
- Highly Flexible - Elastic
- Quick Curing
- Cold Curing
- High Impact Strength & Vibration Resistance
- Moisture & Water resistant
- Chemical resistant
- Over 10 years of positive feedback worldwide.

### Uses

The COLTECH A 121 is a specialized Polyurethane adhesive for adhesion of textile / foams lamination:

- Textile lamination to synthetic foams and films
- Domestic Foam-Sponge lamination
- Scotch Brite™ type abrasive household sponge lamination
- Sound absorption foam blocks & layers

Suitable for exterior applications including seaside and other high humidity locations.

### Consumption

0,050 – 0,200 kg /m2 depending on adhered materials

### Colors

The COLTECH A 121 is supplied in transparent-yellowish.

### Technical Data \*

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Resin Prepolymer. Solvent free.	
Hardness (Shore A Scale)	50-60	ASTM D 2240
Solid content	62 %	IN HOUSE LAB
Temperature Strength	+90°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-40° C (Fully cured)	IN HOUSE LAB
Open Time *	15-20 minutes	Conditions:20°C,50%RH
Removal Time from Press *	1-4 hours	
Final Curing time *	7 days	

### Chemical Properties

Water	+	Salt water 20%	+
Potassium hydroxide 5%	+	Sodium Hypochloride solution (Chlorine bleach) 5%	+
Domestic Detergents	+	Ethanol 40%	+

{+ stable, - unstable, ± stable for a short period.}

\* Depending on Ambient Temperature and Relative Humidity

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## Application

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### Surface Preparation

Before adhering make sure that all surfaces to be used are free of any trace of moisture (Maximum surface moisture content should not exceed 4%). Also make sure that the surface is not contaminated with oils, grease, dust, lubricants, release agents and other impurities that could prevent the adhesion.

### Application

Stir COLTECH A 121 well before using.  
COLTECH A 121 should have a temperature higher than 18°C during application.

Apply COLTECH A 121 adhesive with a trowel, brush or spray equipment to the one surface to be adhered.  
On the other surface to be adhered spray some clean water and press together. Place adhered object in hydraulic press and allow to cure.

ATTENTION: Please ensure adhesion (pressing) within Open Time.

RECOMMENDATION: Before use or change in surface to be adhered make an adhesion test to make sure that adhesion is optional.

RECOMMENDATION: Use heated press (@40-45oC) to accelerate curing and lower removal time from press.

### Acceleration

The quantity of water that is sprayed onto the one of the two surfaces to be adhered, accelerates the curing of the adhesive up to one point.  
If the Potlife of the adhesive is to be adjusted further to the water spray, add the recommended quantity of the COLTECH C 298 catalyst / accelerator (from 0,05 to 0,1%) into the COLTECH A 121 and mix well, for about 3 min, by low speed mechanical stirrer. Allow mixture to rest for 5-10 minutes.

### Packaging

Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5<sup>o</sup>-30<sup>o</sup>C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

After opening of the pails,

### Safety measures

Please study the Material Safety Data Sheet. PROFESSIONAL USE ONLY

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