

COLTECH A 120

TECHNICAL DATA SHEET
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Single Component Polyurethane Adhesive Solvent Free

Product description

COLTECH A 120 is a single component, hard elastic, low-foaming, moisture curing polyurethane adhesive.

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

COLTECH A 120 can be applied manually (trowel, brush), by roller racks 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
- Not Flammable Vapors during processing
- Chemical resistant
- Over 10 years of positive feedback worldwide.

Uses

The COLTECH A 120 is a specialized Polyurethane adhesive for adhesion of foams in household applications like:

- 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

0,1 – 0,3 kg /m² depending on adhered materials

Colors

The COLTECH A 120 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	100%	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 *	1-2 hours	
Final Curing time *	7 days	

Chemical Properies

Water	+	Salt water 20%	+
Potassium hydroxide 5%	+	Hydrochloric Acid 5%	+
Domestic Detergents	+	Diesel Oil	+
{+ stable, - unstable, ± stable for a short period.}			
* Depending on Ambient Temperature and Relative Humidity			

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Application

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 120 well before using.
COLTECH A 120 should have a temperature higher than 18°C during application.

Apply COLTECH A 120 adhesive with a trowel, brush, roller racks 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 120 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°-30°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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