

COLTECH A 100

TECHNICAL DATA SHEET

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Single Component Polyurethane Adhesive

Product description

COLTECH A 100 is single component, solvent free, hard elastic, low-foaming, marine-grade polyurethane adhesive. It provides excellent elasticity, impact resistance, durability and chemical resistance properties with minimum shrinkage. COLTECH A 100 can be applied manually (trowel, roller, etc) or by airless spraying equipment.

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

Advantages

- Solvent free
- Low Foaming
- Quick Curing
- Cold curing

Consumption

- High Impact Strength & Vibration Resistance
- Moisture & Water resistant

materials and application method

- · Salt water resistant
- Chemical resistant
- Over 20 years of positive feedback worldwide.

0,050 - 0,200 kg $/m^2$ depending on adhered

Uses

The COLTECH A 100 is a specialized Polyurethane adhesive for adhesion of wood to wood in Marine applications and exterior applications like:

- Wooden elements on Boats/Ships
- Wooden Garden Furniture
- Wooden Pergolas

The COLTECH A 100 is also used as a quick-setting adhesive for production of sandwich elements / Panels using:

- Aluminum
- Steel
- Wood
- Expanded & Extruded Polystyrene (EPS & XPS)
- Polyisocyanurate (PIR)
- Mineral Wool
- Honeycomb

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

Colors

The COLTECH A 100 is supplied in transparent-yellowish

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Resin Prepolymer. Solvent free.	
Hardness (Shore A Scale)	>80	ASTM D 2240
Solids Content	100 %	CALCULATED
Temperature Strength	120°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-40 ^o C (Fully cured)	IN HOUSE LAB
Open Time *	15-30 minutes	
Removal Time from Press *	1-2 hours	Conditions:20 ^O C,50%RH
Final Curing time	7 days	

Chemical Properties

vvater	+	Sait water 20%	+		
Potassium hydroxide 5%	+	Hydrochloric Acid 5%	+		
Domestic Detergents	+	Diesel Oil	+		
{+ stable, - unstable, ± stable for a short period.}					







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, old varnishes/coatings and other impurities that could prevent the adhesion.

Application

Stir COLTECH A 100 well before using.

COLTECH A 100 should have a temperature higher than 5°C during application.

Apply COLTECH A 100 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 curing.

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

RECOMMENDATION: Use heated press (40-45°C) to accelerate curing and to reduce removal time from the 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.

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.

Safety measures

Please study the Material Safety Data Sheet. PROFESSIONAL USE ONLY

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and for application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.



