

# COLTECH A 131

TECHNICAL DATA SHEET  
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## Single Component Polyurethane Binder / Adhesive

### Product description

COLTECH A 131 one component, solvent free, polyurethane elastomeric binder/adhesive. It provides excellent elasticity and high tear resistance properties with minimum shrinkage. It cures by reaction with humidity, even at very low temperatures.

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

### Uses

The COLTECH A 131 is a specialized elastomeric Polyurethane Binder / Adhesive, used for binding of recycled rubber or EPDM granulates for use in:

- sports facilities / running tracks
- playgrounds / nurseries
- casted tiles / objects

Suitable for exterior applications including seaside and other high humidity locations

### Advantages

- Low Foaming
- Hard 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.

### Consumption

15-25% weight parts on Rubber granulate, depending on corn size and application.

### Colors

The COLTECH A 131 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	+70°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-20° 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%	+	Hydrochloric Acid 5%	+
Domestic Detergents	+	Diesel Oil	±
{+ stable, - unstable, ± stable for a short period.}			
* Depending on Ambient Temperature and Relative Humidity			

## Application

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### Surface Preparation

Before adhering make sure that all granulates 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 131 well before using.

COLTECH A 131 should have a temperature higher than 10°C during application.

Mix the COLTECH A 131 binder resin with the recycled rubber or EPDM granulates according to the mixing ratio **1:4 to 1:6** (by weight) by low speed mixing for 5 minutes. Add 1% of clean water to the mixture in order to increase curing speed.

In casted objects production make sure that before the application of the COLTECH A 131 / aggregate mixture, the mould has to be coated with a suitable liquid applied mould release agent as the COLTECH E499 or COLTECH E497.

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

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

## Packaging

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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.

## Safety measures

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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 /or 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 your scope of liability and responsibility. We will, of course, provide products of consistent quality 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.