COLTECH A 130

TECHNICAL DATA SHEET
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Single Component Polyurethane Binder / Adhesive

Product description

COLTECH A 130 one component, solvent free, polyurethane elastomeric binder. 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.

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 20 years of positive feedback worldwide.**

Uses

The COLTECH A 130 is a specialized elastomeric Polyurethane Binder / Adhesive resin, 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

Consumption

0,05 – 0,25 kg /m^2 depending on adhered materials

Colors

The COLTECH A 130 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

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 130 well before using.
COLTECH A 130 should have a temperature higher than 10°C during application.

Mix the COLTECH A 130 binder resin with the recycled rubber or EPDM granulates according to the mixing ratio **1:4 or 1:5** (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 130 / 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: Before use in aggregates to be adhered make an adhesion/binding test to make sure that adhesion is optional.
RECOMMENDATION: Use heated press (40-45ºC) to accelerate curing and lower removal time from press.

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: 5^0-30^0C. 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**