

# COLTECH A 190

TECHNICAL DATA SHEET  
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## Artificial Grass Polyurethane Adhesive

### Product description

COLTECH A 190 is a two components, solvent free, hard elastic, polyurethane adhesive. It provides excellent elasticity, impact resistance, durability and chemical resistance properties with minimum shrinkage. COLTECH A 190 can be applied manually using a notched trowel.

Cures by reaction (cross linking) of the two components even at very low temperatures, and provides long setting time.

### Uses

The COLTECH A 190 is a specialized Polyurethane adhesive for bonding jointing strips under the artificial grass sheets, with excellent weathering resistance. The COLTECH A 190 adhesive can be also used to bond rubber, metal and wooden objects to concrete/wood.

### Advantages

- Solvent free
- Shore A 80
- Long setting time
- Cold curing
- Minimum shrinkage
- High impact strength
- Moisture & Water resistant
- Chemical resistant
- Over 20 years of positive feedback worldwide.

### Consumption

0,3 – 0,4 kg /m applied on 40cm wide jointing strip

### Color

The COLTECH A 190 is supplied in green.

### Technical Data \*

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Resin + Hardener. Solvent free.	
Mixing Ratio	A : B = 90 : 10 (9 :1) by weight	
Hardness (Shore A Scale)	80 + 5	ASTM D 2240
Solids Content	100 %	CALCULATED
Temperature Strength	80°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-40° C (Fully cured)	IN HOUSE LAB
Pot Life	45-60 minutes	Conditions:20°C,50%RH
Open Time	60-80 minutes	
Start setting time	3-4 hours	
End of setting time	5-6 hours	
Set to light foot traffic	24 hours	
Final Curing time	7 days	

### Chemical Properties

Water	+	Hydrochloric acid 5%	+
Potassium hydroxide 5%	+	Styrene	+
Sodium hydroxide 5%	+	Sulfuric acid 5%	+
Salt water 20%	+	Xylene	+
Domestic Detergents	+	DMSO	-
Diesel oil	+	N-Methyl pyrrolidone	-

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

## 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.

### Manual Mixing & Application

Stir COLTECH A 190 Component A well before using. Stir COLTECH A 190 Component B well before using. Pour component A into component B pail.

COLTECH A 190 Component A and Component B should be mixed by low speed mechanical stirrer, according to the indicated mixing ratio in this technical data sheet, for about 2-3 min if applied manually.

**ATTENTION:** The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Apply COLTECH A 190 adhesive with a notched trowel to the jointing strip, and spread the adhesive evenly.

**ATTENTION:** High temperatures over 35°C will significantly reduce the working time

### 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 manufacturer's name, product designation, batch number, and application precaution labels.

### Safety measures

Please study the Material Safety Data Sheet. **PROFESSIONAL USE ONLY**

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