

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.

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

Colors

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	35-40 minutes	Conditions:20°C,50%RH
Open Time	60-70 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

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**

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflects 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.