

Technical Data Sheet

3. Pot life Pot life of the mixed product may vary from few minutes

Preliminary

LOXEAL 3461

(Polyolefins bonding)

Description

Two-components medium speed curing acrylic adhesive, specifically designed for bonding PP, PE, HDPE, LDPE, Polyolefins, copolymers, PTFE, EPDM among them and in combination with other plastics such as ABS and PVC and to metals (Aluminum) as well. Does not require any surface treatment.

Mixing ratio 1:1

Micro-particles for gap control; it provides high shear and peeling strength.

Physical properties

Physical properties	3. Pot life Pot life of the mixed product may vary from few minutes
Part A Part B	to some hours at room temperature according to the resin and the
Chemical composition: methacrylate ester methacrylate ester	hardener used. Higher temperature reduces the pot life. Apply
Appearance: translucent transparent	product at temperature higher than +15°C.
Viscosity (+25°C - mPa s): thixo paste 15.000 - 30.000	4. Assembly
Specific weight (g/ml): 1,0 1,0	Parts to be bonded shall be assembled immediately after product
Mixing ratio (A+B): 1:1	application and kept close until full polymerization without providing
Maximum gap filling: 1 mm	any mechanical stress.
Shelf life: 6 months in unopened packaging at +2°C/+7°C	5. Cleaning
	Excess of product can be removed with Acetone or any other
	solvent based cleaner compatible with the substrates to bond.
Curing properties at +25°C (typical value)	Application tools and dosing systems shall be cleaned before the
·····3 hh	product is hardened. Cured product can be removed only
Pot life: 5 - 8 minutes*	mechanically.
Fixture time: 12 - 15 minutes**	inconditionity.
Full cure: 48 - 72 hours	
Shear strength (ISO 4587 at +25°C):	Warnings
PE: >4 N/mm ²	warnings
	This adhesive is not approved for usage poither with pure non with
PP: >4 N/mm ^{2***}	This adhesive is not approved for usage neither with pure nor with
ABS: > 4 N/mm ²	gaseous oxygen.
PTFE: 1.5 N/mm ²	
PVC: >5 N/mm ^{2***}	
***	Storage
EPDM: 3 - 5 N/mm ²	
Aluminum/PE: 3 - 5 N/mm ²	Store refrigerated at temperature between +2°C/+7°C. To avoid
Hardness Shore D (ISO 868): 40 - 50	contaminations do not refill containers with used product.
Temperature range: -40°C/+80°C	For further information on applications, storage and handling
* Time detected using 2g of Part A +Part B with mixing nozzle	contact Loxeal Technical Service
** 0.1 N/mm ² shear strength is achieved	
*** Substrate failure	
	Safety and handling
Substrate failure can be achieved depending on plastic type and its	
intrinsic properties and treatments.	Consult Material Safety Data Sheet before use.
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Directions for use	Note
1. Surfaces preparation	The data contained herein, obtained in Loxeal laboratories, are
For best results we recommend to scratch the surfaces with a tool	given for information only; if specifics are required, please contact
and then to degrease and clean with Loxeal Cleaner 10 or Acetone	Loxeal Technical Department. Loxeal ensures abiding quality of
and let dry for a few seconds.	supplied products according to its own specifics. Loxeal cannot
2. Mixing	
Part A and Part B need to be mechanically mixed before use in the	assume responsibility for the results obtained by others which
ratio of weight and/or volume in compliance with technical	methods are not under Loxeal control. It is user's responsibility to
specifications until a homogeneous colour is reached. Products are	determine suitability for user's purpose of any product mentioned
	herein. Loxeal disclaims all warranties expressed or implied,
available in dual cartridges with static mixers (separately provided)	including warranties of merchantability or fitness for a particular
allowing a direct and correct product application on the substrates	purpose, arising from sale or use of Loxeal products. Loxeal
to bond, completely discarding the first 3/5 cm of the extruded	specifically disclaims any liability for consequential or incidental
product. Avoid excess of product blend because heating produced	damages of any kind, including lost profits.
by chemical reaction may cause risk and loss of product.	
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