

<b>Packaging</b>	<b>Part number</b>
50g Twin Cartridge	PX192H/NC/050 TC
200g Twin Cartridge	PX192H/NC/200 TC

**Availability:**

Available through [sales@robnor.co.uk](mailto:sales@robnor.co.uk), distribution, and [www.resins-online.com](http://www.resins-online.com)

**Cartridge Mixing**

It is essential for best results that the cartridge is 'balanced' before use to ensure correct mixing. Loading the cartridge into the gun before attaching the mixer element and pumping the gun to push a small amount of the contents forward will achieve this. Wipe the excess from the cartridge tip and add the static mixer. The cartridge is now ready for use.

**Twinpacks**

Twinpacks are pre-weighed resin and hardener components contained in a tough flexible film, separated by a removable clip and rail.

Once the clip and rail is removed the resin and hardener can be thoroughly mixed within the bag and is then ready for use.

Mixing will normally take ~ 3 minutes depending on the operator and viscosity of the material.

Twinpacks are ideal for small to medium production runs, prototyping and on-site or field use.

The twinpack weight/volume may also be tailored to a specific size on request.

For further details, please visit [www.robnor.co.uk](http://www.robnor.co.uk)

**Bulk Material**

PX192H is a filled system and formulated to avoid sedimentation.

If sediment is found after storage, this must be re-dispersed in the original container before use.

Failure to do so may result in defective product.

Long-term sedimentation will be aggravated by storage above 25°C and should be avoided.

In bulk or kit form gentle mixing with a paddle or spatula will homogenise the material.

In bulk or kit form evacuation may be necessary for best results.

**Kits**

In kit form, resin and hardener are provided in separate containers to the correct ratio.

In most cases, pour the hardener into the larger resin container and use it as a mixing vessel.

Stir well using an appropriate mixer until homogeneous.

**Note:** Incomplete mixing will be characterised by variable/partial cure (even after extended time periods).

**Cleaning**

All equipment contaminated with mixed material should be cleaned before the material has hardened.

Robnor Resins TS130 is suitable non-flammable cleaning agent, although other solvents may be found suitable.

TS130 will also remove cured material provided it is allowed to soak for a number of hours.

**Storage and Shelf Life**

Material stored in the original unopened containers in cool dry condition between 10 and 25°C will have a shelf life of at least two years.

Once used the containers must be kept sealed to prevent effects from water, air or contaminants.

**Health and Safety**

Epoxy resin systems may cause sensitisation by skin contact or inhalation may be corrosive, harmful or toxic.

It is therefore strongly recommended that skin and eye contact is avoided by the using of appropriate personal protective equipment such as gloves, safety glasses or goggles and overalls.

Wash any contamination from the skin immediately and thoroughly and do not eat, smoke or drink in the working vicinity.

Under normal working conditions a good source of ventilation is adequate, however if the material is heated then local exhaust ventilation (LEV) may be required especially for curing ovens.

The above is given as a guide only; please refer to RX/HX192H Health and Safety data or our Technical Service Department for individual/specific advice.

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The results and information above does not constitute a specification and is given in good faith and without warranty. The information is derived from test/or extrapolations believed to be reliable and is quoted for guidance only. The product is offered for evaluation on the understanding the customer satisfies himself that the product is suitable for his intended by proper evaluation and testing.

# Robnor Adhesive

## Technical Data Sheet Epoxy Adhesive PX192H

### Description

PX192H is a two-part cold curing thixotropic epoxy adhesive with excellent gap fill properties. The resin has been designed to give excellent adhesion to a wide variety of substrates.

### Features

Excellent metal adhesive  
High gap fill  
Toughness  
Cures in damp conditions  
Non-toxic

### Property

Property	Resin RX192H	Hardener HX192H	Mixed PX192H
Colour	Buff	Yellow	Buff
Specific Gravity g/ml	1.48	0.999	1.32
Viscosity m.Pa.s @ 25°C	Thixotropic	Thixotropic	Non-slump

### Specification

Mix Ratio by Weight	3.0: 1
Mix Ratio by Volume	2.0: 1

### Approvals:

RoHS compliant	Yes
UL94-V0	No
REACH (SVHC concentration)	0%

### Cure Schedule

Temperature
10°C
20°C
30°C

### Working Life (minutes \*)

16
15
12

### Light Handling (hours \*)

16
8
4

### Full Cure (hours \*)

48
24
12

### Post Cure (\*\*)

3 days @ 25°C
4 hours @ 60°C
2 hours @ 80°C

\*2mm cross sectional area  
\*\*For maximum properties

Cure time will depend on cross sectional area, ambient conditions and mixing method. The above is given as a guide only.

The above are typical values and will vary depending on the cured mass and application. Hotter temperatures may be used for faster cure but will result in higher post cure shrinkage and higher cure exotherm. Experimentation and testing is suggested to avoid side effects. For maximum properties a post cure may be required - call Robnor Technical Service Department for advice.

### Typical Properties

Thixotropic Number	4 - 8 mm
Operating Temperature**	-40 to + 120°C Continuous (application and geometry dependant)
Tensile Strength	25 MPa
Elongation at Break	5%
Compressive Yield Strength	30 MPa
Water Absorption (7 days @23°C)	0.3%

### Lap shear adhesion

Aluminium to Aluminium	7.5 MPa	ABS to ABS	3.3 MPa
Copper to Copper	6.6 MPa	Nylon 6 to Nylon 6	1.6 MPa
Stainless Steel	9.9 MPa	Acrylic to Acrylic	1.5 MPa

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