

TECHSIL PU217 BLACK

Techsil® PU217 is a two-part, room temperature curing polyurethane system, with outstanding abrasion resistance and toughness. Applications include cable jointing, hand held tool handles and abrasion resistant liners.

Features:

- Non Toxic
- Outstanding abrasion resistance
- Excellent tear strength
- Medium viscosity
- UV resistant.

Specification:

Property	Resin	Hardener	Mixed
Colour	Black	Amber	Black
Specific Gravity g/ml	1.06	1.20	1.07
Viscosity m.Pa.s @ 25°C	6000-8000	800	5000

Mix Ratio by Weight 9.32: 1

Mix Ratio by Volume 10.57: 1

Usable Life (150g @ 20°C) 90 minutes

Gel Time (150g @ 20°C) 120 minutes

Curing Performance:

Cure Schedule	Usable Life (minutes)	Gel Time (minutes)	Initial Cure (hours)	Full Cure (hours)
20°C	90	120	24	48
30°C	60	90	16	36
60°C	20	60	4	8
80°C	10	30	2	4

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 Techsil Technical Service Department for advice.

Packaging:

Techsil® PU217 is supplied in bulk, twinpack and kit form.

Availability:

Available through distribution and sales@Techsil.co.uk

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 is thoroughly mixed within the bag and is immediately ready for use. Mixing will normally take ~ 2 minutes for Techsil® PU217 due to the low viscosity; but pay special attention to the corners. 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 mixing details please visit www.Techsil.co.uk

Contact Details

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Bulk Material:

Techsil® PU217 is a filled system and formulated to avoid sedimentation. However, if sediment is found after storage, this must be re-dispersed in the original container before being used. Failure to do so may result in defective product. Long-term sedimentation will be aggravated by storage above 25°C and should be avoided. Light sediment may be re-dispersed by carefully warming (to avoid distortion of the clip and rail) and kneading the pack; or if in bulk or kit form gently mixing with a paddle or spatula. In bulk or kit form evacuation may be necessary for best results. Avoid breathing vapours produced by this process.

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 erratic or partially incomplete cure even after extended time periods.

Cleaning:

All equipment contaminated with mixed material should be cleaned before the material has hardened. Techsil® PRONATUR is a suitable non-flammable cleaning agent, although other solvents may be found suitable.

Storage and Shelf Life:

Material supplied in original, unopened containers under cool dry condition between 15° and 35°C, will have a shelf life of at least 12 months. Each batch of material will have an actual use by date allocated at the time of manufacture; the Techsil Sales Office if required can confirm this. Once used the containers must be kept sealed to prevent effects from water, air or contaminants.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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