

# UNI-PATCH®

Pre-applied polymer threadlocking coating for fasteners

UNI-PATCH® is an integral part of fasteners that can be applied on screw threads to enhance the prevailing torque. It can retain its loosening-prevention capability after multiple re-insertions of fasteners and is able to work on almost any type of surfaces.



## Product Characteristics

Characteristics	Description
Chemical type	Polyamide (Nylon)
Appearance	Opaque
	Blue (standard), green, red, white
Re-usability	Multiple times
Coating position and length	Customisable
Coating radial coverage	180° or 360°

**180°  
Patching**



**360°  
Patching**



## Features & Benefits

- Can be removed and refastened at any time (effectiveness reduces with frequency of removal and refastening)
- Eliminates sub-components such as locking nuts, split lock washers, safety pins etc.
- Highly customisable (colour, coating position, and coverage)
- Non-toxic
- Can be combined with nearly all surface treatments
- Multiple colours available for easy identification/colour coding

## Prevailing Torque Comparison

Prevailing torque indicates the frictional resistance to thread loosening. Below are the results of a prevailing torque test to compare patched and un-patched M1.2 screws:

Properties	Prevailing Torque (kgfcm)		Prevailing Torque (kgfcm)	
	1st In	1st Out	5th In	5th Out
Raw Screw	0.0791	0.0281	0.0716	0.0232
180° Patch	0.1520	0.0700	0.1110	0.0380

## Recommended Prevailing Torques

Screw Size and Thread Pitch	First Prevailing Torque (kgfcm)	First Removal Prevailing Torque (kgfcm)	Fifth Removal Prevailing Torque (kgfcm)
	Max	Min	Min
M1.0 x 0.25	0.20	0.02	0.01
M1.2 x 0.25	0.25	0.03	0.01
M1.4 x 0.30	0.50	0.05	0.02
M1.6 x 0.35	1.02	0.10	0.04
M2.0 x 0.40	2.04	0.20	0.10



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