ARCON INDUSTRIAL SUPPLY

Corrosion Protection, Simplified

ARCap

Polymer Bolt Protection Caps

01 Complete geometry encapsulation – no exposed angles or thin edges to cause failure.

02 Polyisobutene corrosion-resistant paste fills every void, permanently sealing the assembly.

03 Hand-applied in seconds – no specialty tools, no abrasive blasting required.

04 Maintenance made easy – remove the cap, wipe the filler away, and do the work – it's that easy.

MATERIAL OPTIONS

LDPE
Standard

Service Temp	-60°C to 80°C
Hardness	Shore D 53
Density	0.923 g/cm^3
UV Option	Available
Tinting	Available

HDPE
High Temp

Service Temp	-60°C to 100°C
Hardness	Shore D 66
Density	0.960 g/cm^3
UV Option	Available
Tinting	Available

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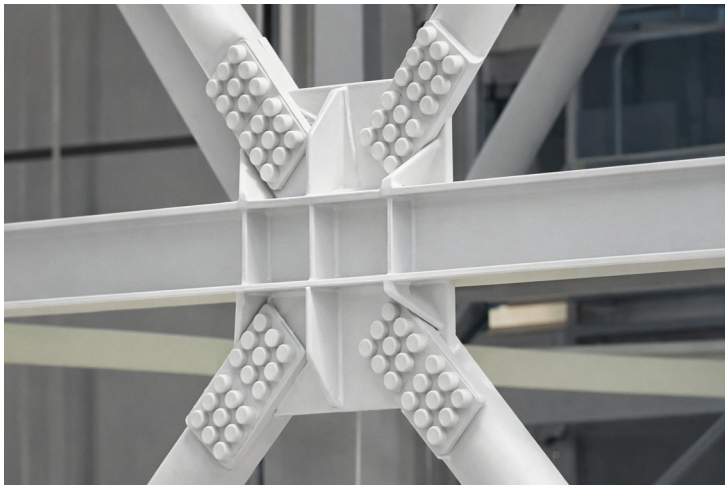
A PROBLEM TO BE SOLVED

Why Coatings Fail on Bolted Connections

Threaded fastener assemblies are among the most corrosion-vulnerable components on any industrial facility and the most resistant to conventional protection. Compound geometry creates angles that abrasive blasting struggles to reach, and sharp edges that produce film thicknesses too thin to be an effective corrosion barrier. The internal corners where a nut seats against a flange face, and the undercut left by the fastener chamfer, can be nearly impossible to prepare from some angles to a standard that gives a coating meaningful mechanical adhesion. The result is accelerated failure at exactly the points that matter most, shortening maintenance cycles and compounding costs without ever resolving the underlying problem – just delaying it.



The ARCap Difference

ARCap encases the entire assembly inside a polyethylene shell filled with a polyisobutene compound that flows into every void, fully displacing air and moisture on application. There is no exposed geometry left to protect – the internal corners, thread roots, and undercuts that defeat conventional coatings are completely sealed from the moment. The PIB filler remains permanently plastic – it does not cure, harden, or respond to thermal cycling – maintaining an active seal in service. Maintenance is straightforward: remove the cap, solvent wipe, complete the work, and install again. The polyethylene shell provides broad chemical resistance across a wide range of industrial environments with minimal surface preparation.

Preparing for Your Order

- Bolt sizes & grades or measurements across corners
- Stud stick-out height
- Colour option – RAL code
- Service temperature requirements
- UV requirements – internal or exterior service
- Quantity

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