



# 920KS BOLT CAPS

Fire rated bolt and nut caps for interior and exterior use up to 120mins\* FRR.

## PRODUCT INFORMATION

### DESCRIPTION

Fireshield® fire rated bolt and nut caps are designed for use on interior and exterior structural steel bolts and nuts for up to 120\* minutes protection from fire. The caps are constructed from a kevlar mould with a 3.5mm DFT\* coat of Fireshield® 920KS high build epoxy intumescent coating.

### CONDITIONS OF USE

Fireshield® 920KS bolt caps form part of the Fireshield intumescent coating system and are industrial products that can be fixed on site.

### PRIMER

Mild steel and galvanised bolt and nut surfaces do not need to be primed before applying the Fireshield® 920KS bolt caps. See Installation notes for surface preparation.

### TOP COAT

Fireshield® 920KS bolt caps can be top coated with Fireshield® approved top coats for Fireshield® 920KS intumescent.

### ENVIRONMENTAL

- Green Star compliant tested to ISO 11890-2:2020-12.
- 100% solvent free + AgBB tested to emissions class A+
- Free of halogens, alkylphenol and benzyl alcohol.

### LIMITATIONS

- All intumescent products require an expansion gap of 50 x the dry film thickness from the coated surface.
- Must be installed by Fireshield® Registered Applicators.
- Limited to a dry film thickness of 7000 microns for the primary fire rated member at 120 minutes.

### PRECAUTIONS

The following precautions must be taken:

- All work involving the application and use of this product should be compliant with all relevant National Health, Work Safety & Environmental standards and regulations.
- Read the Fireshield® 920KS Application Guide and Safety Data Sheet in full before application and have a copy on site at all times.
- Where conditions may require variation from the recommendations on this Product Data Sheet contact Fireshield® for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Fireshield®.
- \*The use of Fireshield bolt caps is limited to a dry film thickness of 7000 microns for the primary fire rated member at 120 minutes.

### STORAGE

Recommended storage conditions:

- Store at a temperature above +5°C and below +35°C.
- Store indoors and undercover in temperate conditions.
- Do not expose to extreme heat.
- Keep out of reach children!

## TECHNICAL INFORMATION

Sizes Available (Ømm)	12,16,20,24,27,30 and 36mm Ø
Flash point	Non-combustible
Colour	Grey matt (approx RAL7045)
VOC	<30 gm/l ISO 11890-2:2020-12
Clean Up	Fireshield® V55 cleaner
Tested bond strength	> 8 MPa (DIN EN ISO 4624)
Hard Dry (920KS filler)	24-30 hrs @3500 microns

## INSTALLATION

The product must be installed in strict accordance with the Fireshield® Application Guide by Fireshield® Registered Applicators. In particular the Applicator should ensure:

- Any steel surface is at a temperature below +35°C and is at least +3°C above the dew point.
- During installation ensure that the air temperature is between +5°C minimum to a maximum +35°C.
- The bolt head or nut surface must be completely clean and dry, remove all rust, dust, oil, grease, loose material or other contaminants as per AS1627.1, Definitions 2.1 and SSPC-SP1.
- Fireshield® 920KS is available in 3.5kg repair kits suitable for installing the bolt and nut caps.
- Use a putty knife or similar to fill the bolt head or nut +cap with pre-mixed Fireshield® 920KS intumescent and press firmly onto the bolt head or nut. Use Fireshield® V 55 cleaner for clean up.
- Bolt heads and nut caps must achieve a firm and force-locking bond with the bolted connections. Loose bolt and nut caps must be replaced accordingly.

## COMPLIANCE

**New Zealand:** Tested and assessed in accordance with EN 13381-8:2013 and BS476:1987 Parts 20 and 21 and Report BB-21-122-1t complying with NZS 3404 Pts 1 and 2:1997 and the New Zealand Building Code.

**Australia:** Tested and assessed in accordance with EN 13381-8:2013 and Report BB-21-122-1t complying with AS4100:1998 amendment 1 and with the National Construction Code.

## SUPPLIER

Fireshield® Coatings

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**HENSEL**

It is the user's responsibility to check that you have the latest technical datasheet available by visiting [fireshieldcoatings.com](http://fireshieldcoatings.com) or checking with your local Fireshield® Representative as the information contained in this technical data sheet is modified from time to time in line with our policy of continuous product development. The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) are correct to the best of our knowledge, Fireshield has no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. Fireshield hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. You should request a copy of this document and review it carefully.