

Margel VPI 600CUF®

Corrosion Inhibitor for Corrosion Under Fireproofing (CUF) Protection

Product Description

Protech Global Ltd has formulated a unique anti-corrosion inhibitor for the protection of steel surfaces that may suffer from corrosion under fireproofing (CUF).

CUF is a specific recognised issue that is estimated to cost hundreds of billions of dollars every year, corrosion under insulation (CUI) and corrosion under fireproofing (CUF) is a common challenge across the power generation, refining, chemical, and other industrial sectors. When it comes to CUI, CUF or corrosion under coatings, most contributing factors are extremely difficult or impossible to control. The power of prevention comes from regular inspection and preventive maintenance.

Corrosion under insulation and fireproofing occurs as a result of moisture penetration and warm temperatures in pipework, vessels and other insulated assets. It often takes the form of general corrosion. CUI and CUF are difficult to detect as they are hidden by the protective layers and likely only found when insulation or fireproofing is removed for visual inspection or when a leak occurs, unless an advanced non-destructive testing (NDT) method is used. Corrosion under insulation and fireproofing are said to be responsible for the highest occurrence of leaks in the chemical and refining sectors.

Margel VPI 600CUF® is uniquely formulated to be applied as a liquid/gel format for easy insertion behind fireproofed coverings. The twin-pack system utilises static mixer nozzles that evenly mix the components in a 1:1 ratio allowing injection into holes of diameter 10mm. Once applied the gel will flow behind the fire protection and then quickly set to a solid. Margel VPI 600CUF® is formulated for use in temperatures from -40°C to +150°C. Application temperature is from -5°C to +30°C.

Product Uses

- Protection from corrosion for steel surfaces under fireproofing

Compatibility

- Compatible with other systems such as fire and flame retardants, paints and sealants.

Characteristics / Advantages

- Long term protection and durability – 10 year corrosion prevention
- Resistant to freeze/thaw cycle
- Unaffected by water ingress
- Resistant to arctic conditions -40°C
- Performance unaffected by damp/humid conditions
- Can be easily applied to steel with zero preparation
- Renewable solution
- Compatible with a wide range of other products
- Flame retardant chemical included in the capsule formula
- Meets environmental guidelines – extending the serviceable life of infrastructure and lowering the maintenance costs

Product Data

- ▶ Supplied in boxes of 20 x 300ml twin pack systems
- ▶ Manufactured and supplied from the UK, we can ship anywhere in the world
- ▶ Appearance: twin pack cartridge system
- ▶ Storage: storage between -20 °C to +25 °C
- ▶ Application conditions: preferable to apply below 25 °C
- ▶ Shelf life: 24 months

Test results/Performance Data: Extensive testing is currently in progress and trials are possible on a limited basis by application to ProTech Global.

Application Instructions

Application: Margel VPI 600CUF® should be applied within the vicinity of the steel to be protected. Product should be applied as per the indicated consumption rate(above) directly to the steel surface. Once applied it is preferable to have low air movement where the product is placed to avoid loss of vapour pressure and to ensure continued concentration of the vapours to migrate and coat the steel surfaces. If water ingress is anticipated at time of application, then care should be taken to apply Margel VPI 600CUF® on the upper side of the intended surface to avoid sitting in pooling water. Water will not affect the properties of the corrosion inhibitor but may impact the migration of vapour and if significant reduce the effective life of the Margel VPI 600CUF® product.

Surface Preparation: Margel VPI 600CUF® requires no preparation of the steel surface to be protected. It works equally well on both newly manufactured steel as well as corroded steel surfaces.

Coverage Rate: Protech Global Ltd will provide advice on a per project basis to determine long term effective protection.

Alternative Products

Margel VPI 595CUI® is formulated for use on pipelines with operating temperatures from -55°C to +150°C. This product is designed for steel products under insulation.

Health & Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Markets

- Construction
- Process plant
- Marine & offshore

Value Base

All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.



Technical Data Sheet

Limitations

Do not leave in an unsealed state
Use immediately after opening, and reseal (liquid form) upon completion
Do not inhale vapour
Avoid skin contact
Do not discard into water systems or water courses

Authorised Technical Specialist

Please note that only Protech Global Limited Authorised Technical Specialists ('ATSS') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

Legal Notices

The information, and, in particular, the recommendations relating to the application and end-use of Protech Global Ltd products, are given in good faith based on Protech Global Ltd.'s current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Protech Global Ltd.'s recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Protech Global Ltd reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

About Protech Global Ltd

Protech Global Ltd is a UK based company that has manufactured anti-corrosion products for over 25 years. With many year's experience in differing types of protection scenarios, Protech Global Ltd has a reputation as a trusted supplier and partners with many corporations worldwide. Protech Global Ltd manufactures and supplies Margel® variant products to SIKA for general sale.

ProTech Global Ltd:

Unit 1 Manor Farm, Green Lane, Failand, Bristol, BS8 3TP, UK
Tel: +44 (0)117 298 0573 Email: sales@protechglobal.co.uk