



# Technical Data Sheet

## Margel® 595CUI

### Corrosion Inhibitor for Corrosion Under Insulation (CUI) Protection

#### Product Description

Protech Global Ltd has formulated a unique anti-corrosion inhibitor for the protection of steel pipe surfaces from corrosion under insulation. Designed to be installed directly onto the surface of pipes fitted with insulation materials, Margel®595CUI is a mid to long term fit and forget cost effective solution to corrosion problems in industry the world over. Margel®595CUI is formulated for use in temperatures from -55 °C to +150°C, with this upper temperature limit currently bearing witness to stringent scientific test.

Margel®595CUI, in liquid or patch form, works by emitting a controlled amount of corrosion inhibiting vapour that when applied to steel surfaces, disperses and is adsorbed by its substrate, blocking the path of chlorides, water and oxygen. Margel®595CUI is manufactured with organic compounds and forms a monomolecular layer onto the surface of steel, this eliminates any further corrosion, working equally well on both newly manufactured or already corroded steel products.

Margel®595CUI migrates up to 2mtrs from its placement location, which is dependent on environmental condition, and will start working from the moment it is applied, typically eliminating further corrosion activity as soon as 14 days from application. ProTech Global have a portfolio of projects where Margel® is still working 25 years from application. Margel® variants have to date been applied to more than 2000 projects worldwide.

Margel®595CUI is unaffected by damp/humid environments and works best in hermetically sealed environment to prolong the effectiveness. This can be achieved by sealing with a suitable enclosure system such as ProTech Global's Proclad150™ or Proclad350 PLUS™.

#### Product Uses

- Storage of drill piping, box girders and pipes for civil engineering use
- Protection of external surfaces for oil and gas pipes – preventing CUI
- Interior surfaces of ship hulls
- Suspension bridge cable conduits / bridge structural steel components
- Protection from corrosion for structural steel in construction industry

#### Compatibility

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

#### Characteristics / Advantages

- Long term protection and durability
- Resistant to freeze/thaw cycle
- Unaffected by water ingress
- Resistant to arctic conditions -55°C
- Performance unaffected by damp/humid conditions
- Can be easily applied to steel with zero preparation – no sand/grit blasting
- 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 25 patches or in liquid form in 5l or 25l containers
- ▶ Manufactured and supplied from the UK, we can ship anywhere in the world
- ▶ Appearance: small patches or liquid form
- ▶ Storage: storage below 20 °C no minimum
- ▶ 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

**Consumption** 2 patches per m<sup>2</sup> or 15ml of liquid per m<sup>2</sup> (minimum)

**Application:** Margel®595CUI 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®595CUI 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®595CUI product.

**Surface Preparation:** Margel®595CUI 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®600CUF gel is formulated for use on pipelines with operating temperatures up to 150°C. This product is designed for steel products without insulation.

## Markets

- Construction
- Process plant
- Marine & offshore

## 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.

## 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.

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