

# Internal long-term repair and corrosion prevention of pipe systems on board of vessels and yachts

## Summary

Profile type	Company's country	POD reference
<b>Technology offer</b>	<b>Germany</b>	<b>TODE20220628003</b>
Profile status	Type of partnership	Targeted countries
<b>PUBLISHED</b>	<b>Commercial agreement with technical assistance</b>	<b>• World</b>
Contact Person	Term of validity	Last update
<a href="#">Silke SCHLEIFF</a>	<b>28/06/2022</b> <b>28/06/2023</b>	<b>28/06/2022</b>

## General Information

### Short summary

A Northern German SME transferred technologies proven on-shore for internal long-term repair and corrosion prevention of pipe systems to the maritime sector. The patent pending, cost effective alternative to replacement of pipes already received type-approval for maritime applications. Commercial agreements with technical assistance are offered e.g. to shipping companies and to service providers for ship restoration and repair.

### Full description

Corrosion of steel pipes on board of vessels and yachts can result in leakages that are among the frequent deficiencies detected by ship-inspections. Replacement of pipes is expensive and, especially if the pipes are covertly installed, needs extended shipyard repair times.

A Northern German SME together with partners transferred technologies proven on-shore for internal long-term repair and corrosion prevention of pipe systems to the maritime sector.

Two different technologies are applied, customised to the specific need: Two-component resins can be applied either directly to the pipe or by inversion using textile hoses. The innovative pipe-in-pipe system stops corrosion and seals leakages with shorter repair times and excellent total cost effectiveness. Execution is even possible as travel repairs to reduce or even avoid shipyard times. Installation is easy, even with complex or almost impossible access to the pipes. Type-approval by Lloyds Register has been granted for the following pipe-systems on board:

- Gray and black water
- deck drainage
- Ballast water

- Bilge de-oiling
- Sea cooling water
- Fire-fighting pipeline

The first installations have already been carried out successfully and can be shown with photos, video documentation and samples.

Contacts are sought

- To shipping companies and ship owners searching for a cost and time efficient solution for pipe repair and corrosion protection on board of their vessels. The company in cooperation with a partner offers commercial agreements with technical assistance for repair services worldwide.
- To service providers for ship restoration and ship repair, interested to cooperate with the German SME for pipe repairs. Cooperation can be envisaged in form of technical cooperation for pipe repair works within complex repair or restoration projects. Also licence agreements on use of the technology combined with technical training of staff can be discussed.

#### Advantages and innovations

- Cost and time effective repair
- Reduces downtime of vessels
- Sustainable solution to repair instead of replace
- Long term preventive corrosion protection

#### Stage of development

**Already on the market**

#### IPR Status

**IPR applied but not yet granted**

#### Sustainable Development goals

- **Goal 12: Responsible Consumption and Production**
- **Goal 9: Industry, Innovation and Infrastructure**

## Partner Sought

#### Expected role of the partner

Type of partner:

- shipping companies and ship owners
- service providers for ship restoration and ship repair

Role of the partner:

- need of a service provider or subcontractor for pipe repair works on board of vessels or yachts
- licensee of innovative pipe-in-pipe technology

#### Type of partnership

**Commercial agreement with technical assistance**

#### Type and size of the partner

- **Big company**
- **SME 50 - 249**
- **SME <=10**
- **SME 11-49**

## Dissemination

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### Technology keywords

- **002006006 - Pipeline Technology**
- **02009005 - Shipbuilding**

### Targeted countries

- **World**

### Market keywords

- **08003007 - Other industrial equipment and machinery**

### Sector groups involved

- **Maritime Industry and Services**

## Media

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### Images



[internal pipe repair.jpg](#)

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