

Press release

20 August 2014

Certified complete solution for pipelines and tank container

Henkel presents Loctite Composite Repair System at ONS 2014

From August 25 to 28, Henkel will present its innovative solutions for the maintenance and repair of industrial facilities, equipment and components for the first time at the 2014 ONS (Offshore Northern Seas) international trade fair in Stavanger, Norway. One particularly interesting exhibit for visitors from the oil, gas and energy industry will be Henkel's certified Loctite Composite Repair System that can be used to tailor pipeline repairs and protection to increase pipe lifetime.

Whether it is a matter of a single component or entire pipeline systems, as the leading global manufacturer of adhesives, sealants and functional coatings, Henkel has developed a repair solution that makes repairing corroded steel pipes fast and economical. Climate factors, mechanical stress and the long-term impact of chemicals have a damaging effect on the interior and exterior of the steel shell, which can lead to the formation of holes, cracks, leaks and fractures in such capital-intensive pipeline systems. With innovative products for surface preparation, reinforcement and top coating, the Loctite Composite Repair System – which has been certified by DNV GL in accordance with the global quality standard ISO/TS 24817 – can be applied directly to the pipe's surface in situ and without any interruption to normal operations. This means that those parts affected by corrosive effects no longer have to be replaced, eliminating costly downtime.

To ensure the highest quality and safety, Henkel recommends treating the surface with the corrosion inhibitor Loctite SF 7515 after cleaning the affected area of the pipe first. The corrosion inhibitor helps prevent flash rust from forming on the metal. Loctite EA 3478 fills in cavities on the exterior, restoring the outer pipe diameter. The affected parts of the pipe are then wrapped with the Composite Repair System, a composite material made of the two-part epoxy resin adhesive Loctite PC 7210 and



the insulating glass-carbon fibre tape Loctite 5085, which reinforces the damaged sections. Finally, the sprayable ceramic topcoat Loctite PC 7255 serves as a protective seal against corrosion and wear. The repair system can increase the lifetime of steel pipes, which have to withstand non-stop high pressures, temperatures and chemicals, by up to 20 years.

To ensure that the repair system is applied properly, Henkel offers customers comprehensive support, training and price calculation for project-specific repairs.

Henkel Adhesive Technologies at ONS 2014

The ONS has been held in Norway's energy capital – Stavanger – since 1974. And with up to 60,000 professional visitors and 1,350 exhibitors from many different countries, the ONS is one of the world's most important trade fairs for the oil, gas and energy industry.

The ONS Conference, which takes place at the same time, also has an excellent reputation as a key global forum on oil, gas and energy topics. The trade fair provides an attractive platform for the Henkel Adhesive Technologies division to present its comprehensive technological expertise, innovative solutions and the latest technology for the energy, marine and offshore and petrochemical industries.

ONS visitors can receive detailed information on the Loctite Composite Repair System and other innovations for industrial maintenance and repair work from the leading global solutions providers by talking with Henkel experts during the trade fair from 25 to 28 August at booth 342, hall C in the German pavilion.

Loctite is a registered trademark of Henkel and/or its affiliates in Germany and elsewhere.

Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies. Founded in 1876, Henkel holds globally leading market positions in both the consumer and industrial businesses with well-known brands such as Persil, Schwarzkopf and Loctite. Henkel employs about 47,000 people and reported sales of 16.4 billion euros and adjusted operating profit of 2.5 billion euros in fiscal 2013. Henkel's preferred shares are listed in the German stock index DAX.

Press photos are available online at <http://www.henkel.de/presse>

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The following press photos are available:



The Loctite product family consists of innovative products for preparing, reinforcing and coating steel surfaces to repair pipelines. It is certified according to the global quality standard ISO/TS 24817.



The corrosion inhibitor Loctite SF 7515 prevents flash rust from forming on metal surfaces for up to 48 hours after pretreatment.



Loctite EA 3478 helps restore surfaces exposed to pressure, impact and shock loads.



The sprayable ceramic topcoat Loctite PC 7255 protects steel pipes against corrosion and wear.



The epoxy resin adhesive Loctite PC 7210 is suited for impregnating glass, carbon or hybrid fibres for reinforcing steel components.



In combination with Loctite PC 7210, the glass-carbon fibre tape Loctite 5085 reinforces worn steel components and is especially suited for repairing steel pipes and tanks.



The Loctite Composite Repair System repairs and protects steel pipes constructed to withstand high pressure, high temperatures and chemicals.