REINZOPLAST

Technical Data Sheet 832

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Please see the latest issue at www.reinz-industrial.com

Material

Solvent-free, permanently plastic, non-hardening polyurethane sealing compound with high viscosity, for highly-stressed sealing joints.

Properties

REINZOPLAST is suitable for sealed joints subject to high static loading, especially vibrations, and can be used at temperatures ranging from -50 °C to +250 °C, and even up to 300°C for brief periods of time, depending on the medium.
Liquid pressures exceeding 100 bar can be handled with stiff and rigid components of high grade sealing surfaces in connection with minimum application layer thicknesses (sealing gap) and larger sealing widths. In general, relatively low surface pressures are required in relation to the internal pressure, lower than with most other sealing media or sealing methods.

Excellent media resistance against petrol and diesel fuels, biodiesel, oils, fats, lubricants, additives, antifreeze, water and gases.

For liquid media under the above conditions the following applies within a wide operating range: surface pressure must be about equal to internal pressure, as opposed to many other sealing methods, with which the surface pressure must be higher than the internal pressure.

The assemblies are able to be mounted immediately after applying the sealant. Because of the unbounded assembly time, it can also be used when you have a long mounting time.

Application

REINZOPLAST acts as a highly viscous barrier in the sealing gap which can only be forced out by relatively high pressure differences. As opposed to the REINZOSIL and REINZOSIL-t (transparent), the compound **REINZOPLAST** serves primarily for micro sealing of rough surfaces rather than for filling larger sealing gaps and unevenness or distortions.

In this way, a reliable seal is ensured even under high thermally and/or mechanically induced component vibrations.
The use of **REINZOPLAST** is also recommended wherever precise centering of components is required, or where extremely tight ("zero gap") component tolerances must be met, e.g. with bearings, turbines, pumps, compressors, engines, valves, etc.
We also recommend the use of **REINZOPLAST**, particularly where composite, metal/composite, and flat metal gaskets are involved, or for applications with rough sealing surfaces, insufficient mounting surface pressure, and/or unfavourable pressure distribution ratios. This enhances the surface sealing properties decisively.

In these cases, only a very thin layer of sealant should be applied to the sealing surfaces of the components.

Due to the high adhesion forces, **REINZOPLAST** can also be applied to overhead and vertical surfaces without dripping. **REINZOPLAST** acts as a corrosion inhibitor, even with metal sealing components that are subject to strong electrochemical reactions due to different materials.

Because the sealing compound does not harden and does not develop high cohesion forces, assembled components can be disassembled (separated) relatively easily, even after long operating periods and high temperature loads. Moreover, the sealing surfaces can be cleaned very easily, e.g. with RE-MOVE (thick layers should be removed first with a spatula). This is not possible with fully hardening sealing media.

Other typical application areas:
Electrical equipment, motors, compressors, drive housings and covers, crankshaft bearing covers, pneumatic cylinders, hydraulic components, vacuum pumps, fans, ventilators, cylinder liners, clutches, petrol and diesel injection systems, cable bushings, transformers, radar equipment, threaded fittings, optical and opto-electric components, and many others.

Instructions for use

Remove any gasket remnants or other residue such as grease, oil, etc. with RE-MOVE sealant remover, and dry the sealing surface with a clean, lint-free cloth. Apply materials preferably at room temperature.

With highly finished sealing surfaces, the sealing compound usually only needs to be applied on one surface. With relatively rough and uneven sealing surfaces, apply the sealing compound on both sides. This can be done with a stiff brush or spatula.

In general, it should be noted that permissible internal pressure load, blow-out safety and creep stability (bolt pre-torque) decrease as layer thickness increases. Moreover, any excess compound would be forced out of the sealing gap in the case of a too thick layer or with higher surface pressures.

The components to be sealed can be assembled, and the clamping bolts tightened crosswise in several stages, until the specified torque is reached.
After a settling period of 10 to 15 minutes or before commissioning, the clamping bolts must be retightened, especially in case of thicker layers.

The data specified above have been compiled to the best of our knowledge, and are valid for the material "as delivered". They describe the product with respect to safety requirements and do not imply any specific product properties. In view of the many possible installation and operating conditions, no final conclusions may be drawn for all applications. For that reason, we cannot assume any liability for the information provided. The data do not specify any assured properties. In case of doubt, please contact us with an exact description of the application.

Storage period

In dry rooms at temperatures between +5 °C and +25 °C, the storage period for unopened vessels is about 3 years.

Form of delivery

Form of delivery	REINZ No.	Packaging unit
80 ml tube	70-24571-20	25 tubes in a white box
300 ml cartridge	70-24575-20	12 cartridges in a carton