DIAMANT Metallplastic GmbH

The specialist for polymeric solutions in the machine tool industry.
Our products, your benefits.

moglce

Mouldable slideways
moglce is a low-friction coating for the production and overhauling of slideways. The cold-setting polymer can be applied by filling, pouring or injection. By choosing the DIAMANT moulding method no extensive and costly machining (e.g. scraping) is needed.

Benefits:
- Anti-slip characteristics
- On-site moulding without scraping or machining
- Good damping properties and high wear resistance
- High dimensional stability and very good adhesive capacity

DWH

Dimension-stable adjustment coating
DWH is a dimensional-stable adjustment coating. The two-component polymeric metal is suitable for static adjustment works on metal parts. DWH is applied between the contact surfaces. After hardening the material is dimensionally-stable and resistant to high compression. By filling joints and gaps with polymeric materials you guarantee the best possible load transmission without any expensive machining.

Benefits:
- Force-fitting connection between metal parts
- No relevant material shrinkage (°0.05%)
- Without any expensive machining
- Excellent compressive resistance

Versatile on-site, precise in the application.

We have made it to our business to develop a specialized assortment for the machine tool industry due to the reason that no general solution for technical challenging applications exist. With our product solutions you produce slideways, custom-made seals and adjust your machine parts. DIAMANT products are easy in the application and allow you to avoid costly machining time. The widely proven metal polymer thereby increases the economical efficiency of your production.
**diaflex**

**Custom-made seals**

Diaflex is a two-component elastomer for the production of custom-made seals. The elastomeric material is resistant against most oils, fat and coolant lubricant emulsions. Even under permanent pressure and strain diaflex remains flexible and tear resistant.

**Benefits:**
- Production of custom-made seals or small series
- Highly resistant to abrasion and strain
- Permanently tensile and deformable
- Resistant against most oils, fat and coolant lubricant emulsions
- Low-viscous in the application

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**Accessories**

**Accessories**

DIAMANT accessories have especially been developed for the application of our products. Make sure to apply DIAMANT products properly and ensure perfect results with the right equipment.

**Benefits:**
- Ensure the proper use of DIAMANT products
- Approved for the application with polymer-bound metals
- Especially developed for the machine tool industry
- Reduce possible sources of error
moglice - mouldable slideway

- Anti-stick-slip characteristics
- On-site moulding without scraping or machining
- Good damping properties and high wear resistance
- High dimensional stability and very good adhesive capacity
- Improved stiffness and super sliding properties

<table>
<thead>
<tr>
<th>article name</th>
<th>viscosity</th>
<th>unit number</th>
<th>packaging size</th>
<th>elastic modulus [N/mm²]</th>
<th>shrinkage of the material in [%]</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>putty</td>
<td>#1130</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>10400</td>
<td>~ 0,05</td>
<td>P is pasty while applying. The application is executed through a spatula.</td>
</tr>
<tr>
<td>P500</td>
<td>semiliquid injectable</td>
<td>#0296</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>9500</td>
<td>~ 0,05</td>
<td>P500 is semi-liquid while applying. The application is executed through injection.</td>
</tr>
<tr>
<td>FL/P</td>
<td>liquid</td>
<td>#0311</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>9100</td>
<td>~ 0,05</td>
<td>FL/P is liquid while applying. The application is executed through pouring or injection.</td>
</tr>
</tbody>
</table>

moglice - product supplements

<table>
<thead>
<tr>
<th>article name</th>
<th>viscosity</th>
<th>unit number</th>
<th>packaging size</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ScoreEx</td>
<td>variable</td>
<td>#0265</td>
<td>400g</td>
<td>ScoreEx is an extremely fast curing version of moglice for the reliable repair of scores, defects and partial damages in bed ways and mogulise slideways.</td>
</tr>
<tr>
<td>Thickener powder</td>
<td>powder</td>
<td>#0296</td>
<td>500g</td>
<td>Thickener powder modifies the viscosity of moglice while applying. With the use of thickener powder, moglice can be applied on bevels, verticals or downwards without dripping down.</td>
</tr>
<tr>
<td>Oil dressing stone</td>
<td>-</td>
<td>#0907</td>
<td>1 piece</td>
<td>Oil dressing stone is used in the post-processing of molded mogulise slideways. By the use of the dressing stone in combination with the purchase included oil a perfect stick-slip free surface is guaranteed.</td>
</tr>
<tr>
<td>Magnetic tape</td>
<td>-</td>
<td>#8048-1, #8048-2, #8048-4</td>
<td>1 roll (100x120x0,3mm), 1 roll (100x615x0,3mm), 1 roll (100x400x0,2mm)</td>
<td>Magnetic tape allows molding in oil pockets in one working step. No machining or cutting after the moglice application.</td>
</tr>
</tbody>
</table>

diaflex – custom-made seals

- Production of custom-made seals or small series
- Highly resistant to abrasion and strain
- Permanently tensile and deformable
- Resistant against most oils, fat and coolant lubricant emulsions
- Low-viscous in the application

<table>
<thead>
<tr>
<th>article</th>
<th>viscosity</th>
<th>unit number</th>
<th>packaging size</th>
<th>hardness [shore A]</th>
<th>tear strength [DIN 53515]</th>
<th>shrinkage of the material in [%]</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A65</td>
<td>liquid</td>
<td>#2136</td>
<td>250g / 500g</td>
<td>65</td>
<td>22 [N/mm]</td>
<td>0,1</td>
<td>Permanently elastic two-component elastomer for the production of custom-made seals</td>
</tr>
</tbody>
</table>
**DWH** – dimension-stable adjustment coating

- Force-fitting connection between static metal parts
- Without any expensive machining
- Excellent compressive resistance
- Long service life, more than 50 years in industrial use

<table>
<thead>
<tr>
<th>article</th>
<th>viscosity</th>
<th>unit number</th>
<th>packaging size</th>
<th>elastic modulus [N/mm²]</th>
<th>compression strength</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310 FL</td>
<td>liquid</td>
<td>#0795</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8700</td>
<td>165</td>
<td>310 FL is a steel-filled and liquid version, which can be easily applied through pouring or injection.</td>
</tr>
<tr>
<td>310 P</td>
<td>putty</td>
<td>#0442</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8900</td>
<td>170</td>
<td>310 P is a steel-filled and putty version, which can be applied easily with a spatula.</td>
</tr>
<tr>
<td>311 FL</td>
<td>liquid</td>
<td>#0166</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8500</td>
<td>158</td>
<td>311 FL is an aluminium-filled and liquid version, which can be easily applied through pouring or injection.</td>
</tr>
<tr>
<td>311 P</td>
<td>putty</td>
<td>#0019</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8600</td>
<td>160</td>
<td>311 P is an aluminium-filled and putty version, which can be easily applied with a spatula.</td>
</tr>
<tr>
<td>314 FL</td>
<td>liquid</td>
<td>#1984</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8200</td>
<td>148</td>
<td>314 FL is based upon high-quality minerals, whereby the electric field of the machine remains unaffected. It can be easily applied through pouring or injection.</td>
</tr>
<tr>
<td>314 P</td>
<td>putty</td>
<td>#0409</td>
<td>250g / 500g / 1kg / 35kg</td>
<td>8300</td>
<td>156</td>
<td>314 P is based upon high-quality minerals, whereby the electric field of the machine remains unaffected. P is a putty material, which can be applied with a spatula.</td>
</tr>
</tbody>
</table>

**DWH** – product supplements

<table>
<thead>
<tr>
<th>article</th>
<th>viscosity</th>
<th>unit number</th>
<th>packaging size</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310 Thickener powder</td>
<td>powder</td>
<td>#0038</td>
<td>500g</td>
<td>Thickener powder modifies the viscosity of the specific DWH product while applying. With the use of thickener powder, DWH can be applied on bevels, verticals or downwards without dripping down. In addition thickener powder allows realizing the optimal constant viscosity even at different working temperatures.</td>
</tr>
<tr>
<td>311 Thickener powder</td>
<td>powder</td>
<td>#0039</td>
<td>500g</td>
<td></td>
</tr>
<tr>
<td>314 Thickener powder</td>
<td>powder</td>
<td>#0225</td>
<td>500g</td>
<td></td>
</tr>
</tbody>
</table>
### Accessories

- Ensure the proper use of DIAMANT products
- Approved for the application with polymer-bound metals
- Especially developed for the machine tool industry
- Reduce a possible sources of error

<table>
<thead>
<tr>
<th>Article</th>
<th>Viscosity</th>
<th>Unit number</th>
<th>Packaging size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Separator</td>
<td>Liquid spray</td>
<td>#1354</td>
<td>1l / 5l / 10l</td>
<td>Separator avoids an adhesion of DIAMANT products on surfaces, whereby the mechanical parts are kept in its origin in case of later repairs and maintenance. Separator is based on high value substances and is available in the version liquid, spray and putty.</td>
</tr>
<tr>
<td>Teflon</td>
<td>Liquid spray</td>
<td>#1356</td>
<td>1l / 5l / 10l</td>
<td>Separator TF avoids an adhesion of DIAMANT products on surfaces, whereby the mechanical parts are kept in its origin in case of later repairs and maintenance. Separator TF is based on high value Teflon and is available in the versions liquid, spray and putty.</td>
</tr>
<tr>
<td>Cleaner</td>
<td>Liquid spray</td>
<td>#1417</td>
<td>1l / 5l / 10l</td>
<td>Cleaner removes all kinds of dirt from the surface to prepare a perfect metallic surface for the application of all DIAMANT products. Cleaner is available in the versions liquid and spray.</td>
</tr>
<tr>
<td>Deoiler</td>
<td>Powder</td>
<td>#0057</td>
<td>2kg</td>
<td>Deoiler is a powdery surface cleaner, which soaks oils, fat and liquids out of porosities and cracks. This highly absorbent powder is bonding and guarantees best outcomes even on strongly polluted surfaces.</td>
</tr>
<tr>
<td>Injection equipment</td>
<td>- Screw-in fitting R1/4</td>
<td>#1578</td>
<td>10 piece</td>
<td>We recommend the use of our in-house injection equipment, to ensure a problem-free application of all injectable DIAMANT products.</td>
</tr>
<tr>
<td>- Screw-in fitting R1/4</td>
<td>-</td>
<td>#1576</td>
<td>10 piece</td>
<td></td>
</tr>
<tr>
<td>- Screw-in fitting R1/4</td>
<td>-</td>
<td>#1579</td>
<td>10 piece</td>
<td></td>
</tr>
<tr>
<td>- Block valve</td>
<td></td>
<td>#1577</td>
<td>10 piece</td>
<td></td>
</tr>
<tr>
<td>- Flexible P tube</td>
<td></td>
<td>#1572</td>
<td>10 piece</td>
<td></td>
</tr>
<tr>
<td>- Injector cartridge 150ml</td>
<td></td>
<td>#1573</td>
<td>10 piece</td>
<td></td>
</tr>
<tr>
<td>Spatula (Japan)</td>
<td>-</td>
<td>#8017</td>
<td>1 piece</td>
<td>We recommend the use of our in-house spatula, to ensure a problem-free application of all putty DIAMANT products.</td>
</tr>
<tr>
<td>Liquid glove</td>
<td>Putty</td>
<td>#1362</td>
<td>500g / 1kg</td>
<td>Liquid glove is a dermatologically tested hand guard for all technical works with the use of plastic materials, epoxy resin and oils.</td>
</tr>
<tr>
<td>Sealing tape (foam)</td>
<td>-</td>
<td>#1580</td>
<td>10 meter (9 x 4 mm)</td>
<td>Sealing tape has one adhesive surface and fastens on the ground. It is used to seal gaps between two parts to allow an injection application of the materials.</td>
</tr>
<tr>
<td>Sealing profile (rubber)</td>
<td>-</td>
<td>#1582</td>
<td>10 meter (9 x 4 mm)</td>
<td>Sealing profile (rubber) is based on elastic polymers for fitting on surfaces (with the use of instant adhesives) or as an inlay in machined grooving. It is used to seal gaps between two parts to allow an injection (with higher compression loads) of the materials.</td>
</tr>
<tr>
<td>Single-use gloves</td>
<td>-</td>
<td>#8006</td>
<td>100 pieces</td>
<td>While working with two-component materials we recommend for hygienic reasons the use of a single-use glove.</td>
</tr>
<tr>
<td>Mixing tool</td>
<td>-</td>
<td>#8016</td>
<td>1 piece</td>
<td>The DIAMANT mixing tool is an attachment for standard boring machines and significantly reduces the intermixture of air bubbles in 2-component-materials.</td>
</tr>
<tr>
<td>Cartridge gun (hand press)</td>
<td>-</td>
<td>#8013</td>
<td>1 piece</td>
<td>If you prefer the application of DIAMANT products with a cartridge system we recommend the use of our proven hand press.</td>
</tr>
</tbody>
</table>
Our sales representatives around the world

Australia DYNAREF Products Ltd.
Austria S-L-D-TEC
Bahrain IntraGCC for Consultancy & Services
Belgium GENTEN Maschinen
Brazil DIAMANT Com. Metaloplasticos
Brunei Mozzat SDN BHD
Canada Smelko Foundry Prod. Ltd.
China Dalian F.T.Z. Hong Cheng Intern. Trade
China Sunnice Supplies Co.
Czech Republic Keiner
Denmark Danref A/S
Egypt Dr. Mohamed Taha - Middle East Delegate
Egypt ESMAFCO Engineering Company
England PES (UK) Limited
France GENTEN Maschinen
Germany DIAMANT Mönchengladbach
Greece VANOS S.A.
Hong Kong Sunnice Supplies Co.
Hungary Multimaster Kft.
India DIAMANT Triumph Metal Plastic Pvt. Ltd.
Indonesia PT. Winelectroindo Heat
Iran Mohammad Reza Khaleghi
Israel Premium Shield Ltd.
Italy AMU S.R.L.
Japan Koike Sanso Kogyo Co. Ltd.
Kazakhstan TOO Nipitransneft
Korea Dragon Corp.
Latvia Edwards Ltd.
Lebanon IntraGCC for Consultancy & Services
Netherlands Leering Hengelo B.V.
Norway G & L Beijer AS
Pakistan GRP Eng. & Consultants
Poland Mercator – Tomasz Jaworski
Portugal MaCroTeMa
Romania S.C. Europrizma Servcom S.R.L.
Russia Akvilon
Russia Promkluch
Russia SOEZ Neftezapchast
Saudi Arabia IntraGCC for Consultancy & Services
Serbia I.C.I. d.o.o.
Singapore MSITECH (ASIA PACIFIC) PTE LTD.
Slovenia Termit d.d.
South Africa Machine Tool Promotions c.c.
Spain Berg S.L.
Spain Hytelsa
Sweden Kariabo
Switzerland Qualimet Theiler
Syria ENANA Trading - Tawfik Razzouk
Taiwan Keesh Groups Intern. Corp.
Thailand Lucky Joint Trade Co. Ltd.
Turkey ADM Arikan Döküm Makina
Ukraine NPO Polytech
Ukraine 000 << Diamant i K >>
USA DIAMANT Coating Systems
USA Devitt Machinery Co., Inc.
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