

Technical Datasheet

Dirko® –

the permanently-elastic, temperature-resistant sealing compound
(neutral hardening)



Description and typical applications

Dirko® is a pasty, elastic, cold-vulcanizing sealing compound based on silicone rubber with excellent adhesion effect to metallic and non-metallic surfaces. Dirko® is used to seal surfaces, gaps and cracks, including components that are subject to distortions and motions, such as engines, gearboxes, machines, pumps, ships, equipment assemblies as well as in connection with drying, air-conditioning and cooling units and for hobby needs. Dirko® cannot be painted or varnished.

Characteristic	value range unit method
Temperature stability	after full hardening -50°C to +180°C
Resistance	resistant to ozone, uv, extreme weather conditions, hot and cold water, seawater, greases and mineral oils (also with additives), aliphatic hydrocarbons and cleaning agents, acids, alkalis and numerous chemicals. Dirko® Transparent is recommended for use with antifreeze agents.
Flash point	> 200°C
Density at 20°C	Dirko® gray: approx. 1.40 g/cm ³ Dirko® transparent: approx. 1.02 g/cm ³
Viscosity at 20°C	stable
ph-value (corrosion behavior)	neutral
Electrical properties	insulating
Volume shrinkage	Dirko® gray: approx. 7% Dirko® transparent: approx. 10%
Skin formation time (at 23°C and 50% relative humidity)	approx. 10 – 25 min.
Vulcanization time (at 23°C and 50% relative humidity)	approx. 4 mm/day
Hardness	Dirko® gray: approx. 25 – 35 Shore Dirko® transparent: approx. 15 – 20 Shore
Tensile strength (at 100% elongation)	Dirko® gray: > 0.35 N/mm ² Dirko® transparent: > 0.5 N/mm ²
Tensile strength	Dirko® gray: > 0.6 N/mm ² Dirko® transparent: > 1.1 N/mm ²
Elongation at break	Dirko® gray: > 450% Dirko® transparent: > 450%

Elring Sealing Compound Dirko®



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Physical/chemical characteristics

State when supplied	pasty
Color	gray/transparent
Odor	aromatic
State after application	rubber-elastic
Vulcanization system	Oxime

Application and processing

The surfaces to be sealed have to be cleaned and degreased, preferably using spirit or similar solvent. Hardened silicone remnants can be removed using Elring Special Silicone Solvent. Perfect sealing or adherence of the sealing compound when fully cured is ensured only if the surfaces are absolutely clean and grease-free.

Note: If too much sealing compound is applied, it can drip into the interior. Depending on requirements, the parts can be assembled either immediately after application, after the skin has formed or after full curing.

When sealing without disassembly, e.g. in the case of joints or cracks, Dirko® can also be applied on the outside if the surface is thoroughly cleaned. Equipment assemblies sealed in this way should only be operated again after approximately 30 minutes. In the fully cured state, Dirko® is physiologically safe.

Warning

Keep out of reach of children.

Processing equipment	mechanically or pneumatically operated hand-held pistols or automatic dosing systems. Supplier information on request
Equipment cleaning	Spirit, only mechanical removal once compound is fully cured

Storage

Storage	store in a cool, dry place (room temperature)
Storage life	12 months in an unopened container

Form of supply	Contents	Elring no.	Original pack/pcs
Dirko® gray Cardboard box with tube	70 ml/ 100 g	036.161	10 pieces
Dirko® gray cartridge	310 ml	610.020	10 pieces
Dirko® transparent cartridge	310 ml	216.917	10 pieces

Larger containers on request

All information contained in this datasheet is based upon the extensive experience of the seller. However, no liability can be undertaken. Since the particular circumstances of each individual case determine the success of the sealing, the data provided here is a registered trademark of ElringKlinger AG.



Das Original

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