



LS 848

PTFE ANTI-FRICTION COATING

microGLEIT LS 848 is a water based anti-friction-coating containing especially selected PTFE lubricant dispersion and a matching binder resin thereto.

Product Features

After application and evaporation of the solvent (water) microGLEIT LS 848 produces a dry, barely visible solid film layer with excellent adhesion even on smooth surface. This makes the microGLEIT LS 848 suitable as a universal dry sliding film.

In addition LS 848 provides excellent release properties and therefore is perfect for optimised demoulding of rubber and elastomer parts.

- Thin, barely visible sliding film
- Good adhesion on most substrates
- Good lubrication performance, low and constant friction values
- Good release properties
- Wide service temperature range
- Water based, thus environmentally friendly

Instructions for Use

- microGLEIT LS 848 usually is used as delivered; If needed, it may be diluted up to 1:2 (LS 848:H₂O).
- De-ionised water has to be used as diluent.
- Following application methods are possible:
 - Spraying – all industry standard methods are possible
 - Dip-coating – especially effective with bulk material or non scooping parts
 - Dip-spin-coating – the industry standard for bulk materials — also for scooping parts
 - Paint-roller or brush-application — when other methods are not possible
- Stir well before use and also regularly during use – Please take care that the fluid vortex is laminar, so no air will be stirred into the product.
- microGLEIT LS 848 should be applied on clean surfaces only.

Product Application

microGLEIT LS 848 is a universal solid film lubricant and release agent. Typical Applications:

- Stiff or jamming friction contacts on
 - slideways, guides, ...
 - joints
 - locksmade of wood, plastic or metal
- Mechanical plastic parts like spindles, adjusting mechanisms, actuators, switching cams,
- Keepers of contactors
- O-rings, gaskets, laminar sealing rings,..
- Screws and nuts
- Release agent for rubber and elastomer production, e.g. for extrusion of rubber hoses (friction contact rubber hose — steel mandrel)

- Usually only one friction partner is coated — ideally the one „with the longer sliding distance“.
- After the wet film is applied, the solvent must be evaporated to get a dry film. We recommend preheating the parts to be coated (approx. 50–70 ° C / 122–158 °F) and / or drying with warm air (~50–70 °C / ~122–158 °F). Besides speeding up the process this will help to generate an even coating. In general the wet time of the applied coating should be kept as short as possible.
- The coating equipment should be cleaned after the job is done - please close the coating bath or the container after work.
- Avoid burrs or sharp edges on sliding partners.
- The adhesion of the coating can be significantly increased by using pretreatments e.g. sandblasting, phosphating, anodising or oxalating.
- Protect (liquid) product from frost!

Product Characteristics microGLEIT LS 848

Test/Feature	Standard/ Parameter	Unit	LS 848	
Appearance (as delivered)	visually	—	whitish liquid	As Delivered
Density	DIN 51757	g/cm ³	~ 1.05	
Viscosity	DIN 53211 / 3 mm	s	35 – 50	
Thinner	—	—	water („drinking water quality or de-ionised“)	
pH-Value	—	—	7.8 – 9	
Available Container Sizes	—	—	25 kg plastic pail	
Shelf Life - Closed original container		months	4 after delivery	
Hazard Notes	—	—	pls. see SDS	
Appearance (Applied)	visually	—	semi-matt dry film	
Drying Time			20–30 min @ 20 °C / 68 °F	
Operating Temperature	—	°C/°F	-70 to +250 / -94 to 482 °F	
Friction Value μ	screw-test		~0.09	
Layer Thickness		μm	2–5 (up to 10)	