



Typical Applications

Repairing, coating, moulding and protection of:

- ◇ rubber rollers, rubber belts, belt conveyor,
- ◇ tubes, pumps, impellers, hoses,
- ◇ pipes & elbows,
- ◇ seals,
- ◇ rubber hoses,
- ◇ tanks, silos,
- ◇ drums, compensators, ventilators etc.

Product Description

diagum is easy to apply, cures quickly and has a high resistance against aggressive wear. After cure diagum has a high abrasion and tear-resistance and degenerates completely after elongation or compression. diagum adheres to all metals, natural and synthetic rubbers, nitril, butyl, concrete, glass, wood etc.

Properties

- ◇ high resistant against aggressive wear
- ◇ quick curing
- ◇ high abrasion resistance
- ◇ high tear-resistance
- ◇ complete degeneration after elongation or compression
- ◇ adheres to metal, natural and synthetic rubbers (nitrile- and butyl-rubber) wood, concrete etc.

Material Selection Criteria

diagum is a paste-like or liquid, cold curing 2-component elastomer.

Shelf Life

12 month

Package Sizes (cpl.)

100g
250g
500g

Surface Preparation

Roughen the surface (sandblasting or grinding) and degrease with **DIAMANT Cleaner**. Remove porous or cracked rubber parts.

Use **diagum primer** when applying onto a metal surface.

Do not apply **diagum** at temperatures below +5°C or a relative humidity over 90%.

Processing

◇ Mixing

Mix both components intensively considering the correct mixing ratio.

◇ Application

First apply a thin adhesion layer with a spatula or a short-bristled brush. Afterwards apply immediately the necessary layer thickness.

If **diagum** shall not adhere to special parts or surfaces they must be coated with **DIAMANT separator**.

diagum FL can be injected into gaps or cavities by using a cartridge.

Range Of Products

DIAMANT diagum versions:

diagum P	# 0373	past-like
diagum FL	# 1225	liquid
diagum Primer	# 0892	liquid



Technical Data	P #0373	FL #1225	Primer #0892
pot life (+20°C) [min]	~10	~10	-
demoldable (80% final strength) (+20°C) [h]	12	12	-
final strength (=100% chemical resistant) (+20°C) [days]	6	6	-
E-Modulus DIN 53457 [N/mm ²]	200 - 350	300 - 350	-
breaking elongation DIN 53 455 [%]	400 - 500	500 - 600	-
tensile strength DIN 53 455 [N/mm ²]	38	40	-
linearer shrinkage (250x40x20mm) after 6 days (+20°C) [%]	0,1	0,1	-
temperature resistance long-term [°C]	-30 bis +90	-30 bis +90	-
temperature resistance - short-term [°C]	+160	+160	-
hardness [Shore A]	85	80	-
initial viscosity [m. Pas]	thixotrop	2500 - 4000	-
Mixing ratio (base : reactor) bei weight [g]	100 : 30	100 : 30	-
colour	black	black	-

All material values are average values and vary due to mixing ratio, material quantity and environmental conditions. The mentioned material values are based on normal conditions (STP) of 20°C *(68°F) and 1013mbar (1013hPa).

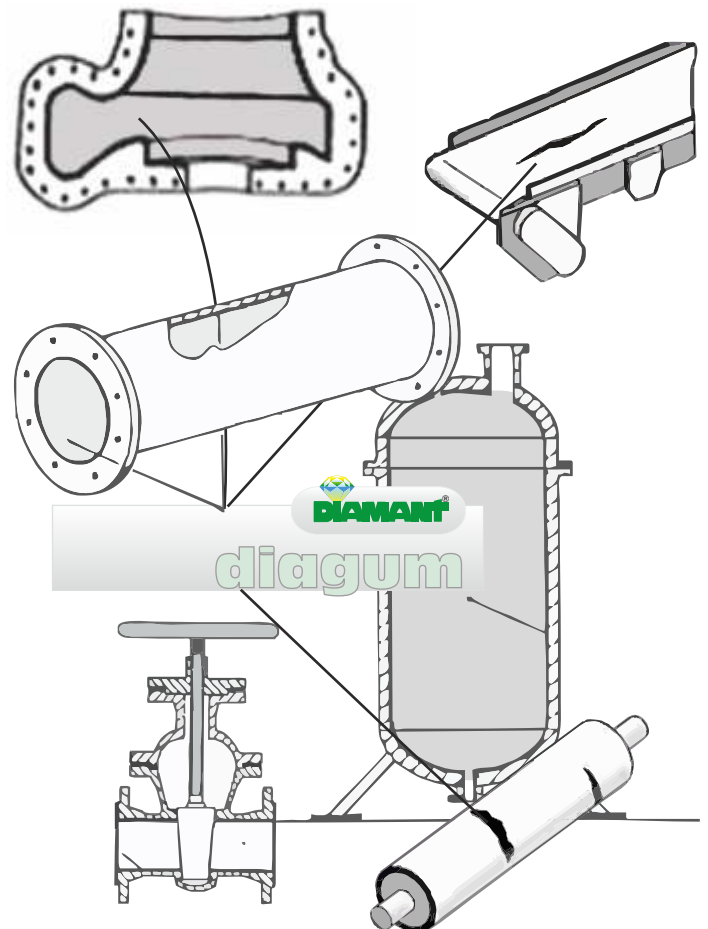
diagum primer

Product Description

diagum primer is thin fluid and efficient – applicable for diagum P & FL. diagum primer is being used to enhance the adhesion on metallic surfaces and to bind humidity on the surface.

Application

- ◆ Apply diagum primer thinly by using a brush or a sponge.
- ◆ Depending on temperature or humidity diagum can be applied after 2 - 3 hours.



09-TD-diagum-2010-02-18-GB
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