

## Metal Protection Systems - Permanently Elastic Coating Systems



### Anti-Corrosion Coating Of A Diesel Storage Tank

The welded seams of a diesel storage tank have been coated against corrosion with

**DIAMANT flexcoat FL red.**



### Typical Applications

Corrosion protection, protective coating and any smoothly running top coating for:

- tanks, storage containers and silos,
- pipelines, stop valves and valves,
- pumps and welded constructions etc.
- hydro technical plants,
- ship superstructures,
- tower and crane superstructures

### Product Description

After cure **DIAMANT flexcoat** is a permanently elastic 2-component coating system based on epoxy resin.

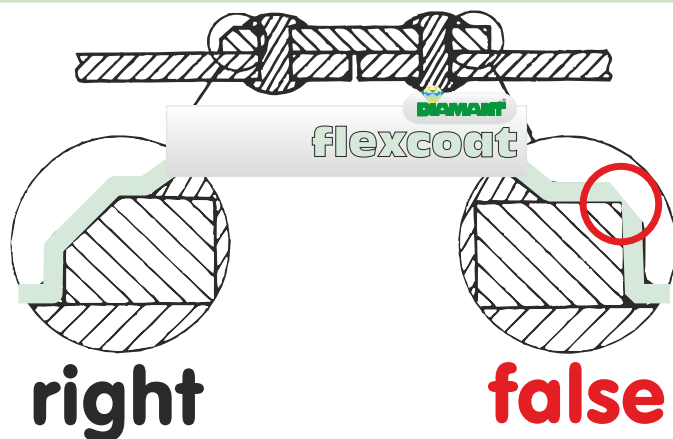
**DIAMANT flexcoat** is weatherproof and has a high chemical resistance. The use of special fillers makes it resistant to abrasion. It is available in the colours red and grey.

### Material Selection Criteria

**DIAMANT flexcoat** is a permanently elastic 2-component coating system consisting of the two components base und reactor. The mixing ratio by weight or by volume is 2 : 1 (base : reactor) .

### Application Instruction

To achieve a minimum layer thickness at sharp edges it is necessary to round or break these areas.



### Surface Preparation

Derust and respectively roughen the surface area that shall be coated by blasting or grinding. Afterwards degrease with **DIAMANT Cleaner**.

### Processing

#### Mixing

Mix **DIAMANT flexcoat** base + reactor intensively before machining to remove possible precipitations.

Mix **DIAMANT flexcoat** in the ratio 2 : 1 (base + reactor) depending on weight or volume until the mixing has a consistent colour.

#### Application

Apply **DIAMANT flexcoat** equally crosswise with a brush or a paint roller. If the application of a second layer is necessary, it can be carried out directly after surface drying of the first layer (material hard - surface still sticky) without new surface preparation.

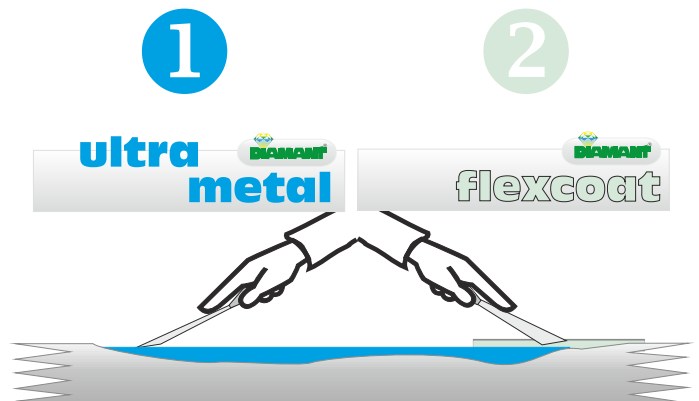
#### Curing

An application of **DIAMANT flexcoat** below +5°C is inadvisable, because the curing will be considerably delayed.

### Properties

- ◇ weatherproof
- ◇ high chemical resistance
- ◇ abrasion-resistant

The areas should firstly be balanced with **DIAMANT ultrametal** at high loss of material (corrosion, pitting, erosion etc.). **DIAMANT flexcoat** can be applied immediately afterwards.



### Range Of Products

#### DIAMANT flexcoat

is available in the following versions:

- ◆ flexcoat Rapid P #0998 paste-like
- ◆ flexcoat FL rot #0997 liquid
- ◆ flexcoat FL grau #1075 liquid

### Shelf Life

12 month

### Package Sizes (cpl.)

500g  
1.000g

Technical Data	Rapid P #0998	FL rot #0997	FL grau #1075
pot life (+5°C) [h]	3	3	3
curing (+5°C) [h]	48	48	48
pot life (+20°C) [min]	40	40	40
curing (+20°C) [h]	24	24	24
specific weight [g/cm <sup>3</sup> ]	-	1,35	1,35
E-Modulus DIN 53457 [N/mm <sup>2</sup> ]	-	~1050	~1050
thermal conductivity (25,6°C) [W/mK]	0,5 - 0,7	0,55 - 0,7	0,55 - 0,7
specific resistance [Ω cm]	5,1 x 10 <sup>12</sup>	5,1 x 10 <sup>12</sup>	5,1 x 10 <sup>12</sup>
specific surface resistance [Ω cm]	2,7 x 10 <sup>11</sup>	2,7 x 10 <sup>11</sup>	2,7 x 10 <sup>11</sup>
productivity at 0,5mm layer thickness (1m <sup>2</sup> ) [g]	~700	~700	~700
dielectric constant			
at 50 Hz	4,7	4,7	4,7
at 1000 Hz	5,0	5,0	5,0
hardness [Shore D] (after 14 days)	70	70	70
temperature resistance long-term [°C]	+120	+120	+120
mixing ratio (volume or weight)	2 : 1	2 : 1	2 : 1
contact corrosion	none		
colours	red / grey		



Interior coating of cover hoods with  
**DIAMANT**  
flexcoat FL grey



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 (273K / 31,73°F) and 1013mbar (1013hPa).

*worldwide  
protected*

