

Relo[®] EP UNIVERSAL



Article No. 5590, 5591

Solvent-based, crack-bridging, tar-free coating on an epoxy resin base with high chemical resistance and a wide range of applications

Range of use:

Relo EP Universal provides strong corrosion protection on steel, galvanized steel, aluminium, interior coatings on sewage and clarification facilities, tanks for storing manure and bio-gas made of concrete or similar materials.

Property profile:

Relo EP Universal is

- Tar-free
- Crack-bridging
- Resistant to chemicals
- Can be brushed or sprayed on
- Thixotropic and non-drip
- Easy to work on horizontal, vertical and overhanging surfaces
- The working sequence is visible (black-red-black)
- It can be directly applied to sandblasted steel, concrete, screed and cleaned, galvanized sheet metals

Colours:

Standard colours: black Art. No. 5590
red Art. No. 5591
Special colours: on request Art. No. 5595

Characteristic data of the product:

Mixing ratio: 3 : 1 parts by weight
2.4 : 1 part by volume
Density: approx. 1.4 g/cm³
Flash point: approx. 30°C
Pot-life: 8 hours at 20°C
Drying time: approx. 1 day
Curing time: full loading capacity after 7 days
Solid content: 79% by weight

Substrate:

Oil, grease, cement paste and other soiling must be removed; steel must be made free of rust and scale by sandblasting SA 2 ½.

Directions:

The two components are packaged in special containers in the proper mixing ratio. The hardener component (B) is to be completely added to the resin component (A) and mixed thoroughly for approx. 2 minutes until homogeneous. Streaks

indicate insufficient mixing. Lesser mixed parts that adhere to the edge and bottom of the container should be scraped off and returned to the mixture.

The mixing ratio is 3 parts by weight component A to 1 part by weight component B.

Working guidelines:

The ambient temperature and that of the substrate should not fall below +10°C. Curing is accelerated at higher temperatures, delayed at lower temperatures.

The formation of condensation on the surfaces to be coated which often occurs when the temperature falls below the dew point temperature considerably reduces adhesive strength. For this reason, the dew point temperature should be at least 3°C below the temperature of the substrate to be coated. If the temperature relationship is unfavourable, the use of heating equipment will be necessary.

Air temp	Condensation point temperature ¹⁾ in °C with a relative humidity of:															
°C	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%		
30	10.5	12.9	14.9	16.8	18.4	20.0	21.4	22.7	23.9	25.1	26.2	27.2	28.2	29.1		
29	9.7	12.0	14.0	15.9	17.5	19.0	20.4	21.7	23.0	24.1	25.2	26.2	27.2	28.1		
28	8.8	11.1	13.1	15.0	16.6	18.1	19.5	20.8	22.0	23.2	24.2	25.2	26.2	27.1		
27	8.0	10.2	12.2	14.1	15.7	17.2	18.6	19.9	21.1	22.2	23.3	24.3	25.2	26.1		
26	7.1	9.4	11.4	13.2	14.8	16.3	17.6	18.9	20.1	21.2	22.3	23.3	24.2	25.1		
25	6.2	8.5	10.5	12.2	13.9	15.3	16.7	18.0	19.1	20.3	21.3	22.3	23.2	24.1		
24	5.4	7.6	9.6	11.3	12.9	14.4	15.8	17.0	18.2	19.3	20.3	21.3	22.3	23.1		
23	4.5	6.7	8.7	10.4	12.0	13.5	14.8	16.1	17.2	18.3	19.4	20.3	21.3	22.2		
22	3.6	5.9	7.8	9.5	11.1	12.5	13.9	15.1	16.3	17.4	18.4	19.4	20.3	21.3		
21	2.8	5.0	6.9	8.6	10.2	11.6	12.9	14.2	15.3	16.4	17.4	18.4	19.3	20.2		
20	1.9	4.1	6.0	7.7	9.3	10.7	12.0	13.2	14.4	15.4	16.4	17.4	18.3	19.2		
19	1.0	3.2	5.1	6.8	8.3	9.8	11.1	12.3	13.4	14.5	15.5	16.4	17.3	18.2		
18	0.2	2.3	4.2	5.9	7.4	8.8	10.1	11.3	12.5	13.5	14.5	15.4	16.3	17.2		
17	-0.6	1.4	3.3	5.0	6.5	7.9	9.2	10.4	11.5	12.5	13.5	14.5	15.3	16.2		
16	-1.4	0.5	2.4	4.1	5.6	7.0	8.2	9.4	10.5	11.5	12.6	13.5	14.4	15.2		
15	-2.2	-0.3	1.5	3.2	4.7	6.1	7.3	8.5	9.6	10.6	11.6	12.5	13.4	14.2		
14	-2.9	-1.0	0.6	2.3	3.7	5.1	6.3	7.5	8.6	9.6	10.6	11.5	12.4	13.2		
13	-3.7	-1.9	-0.1	1.3	2.8	4.2	5.5	6.6	7.7	8.7	9.6	10.5	11.4	12.2		
12	-4.5	-2.6	-1.0	0.4	1.9	3.2	4.5	5.7	6.7	7.7	8.7	9.6	10.4	11.2		
11	-5.2	-3.4	-1.8	-0.4	1.0	2.3	3.5	4.7	5.8	6.7	7.7	8.6	9.4	10.2		
10	-6.0	-4.2	-2.6	-1.2	0.1	1.4	2.6	3.7	4.8	5.8	6.7	7.6	8.4	9.2		

¹⁾ Approximations may be interpolated linearly.

Notes:

The waiting times between working operations given by the manufacturer of at least 8 hours and up to a max. of 48 hours should be observed. Bonding problems may occur otherwise. If these waiting times cannot be kept, the individual coatings should be lightly blinded with sand (quartz sand 0.1–0.4 mm).

Tools and cleaning:

Roller, brush, air pressure gun, airless equipment. Tools and any spilled material should be cleaned immediately while fresh

Technical Information Sheet

with V 103 Thinner. Avoid skin contact by wearing protective gloves.

Shelf-life: 12 months in original containers, closed and unmixed.

Packaging, application rate and storing:

Packaging: 5 kg and 10 kg tin containers

Application rate: Steel or concrete:
3 applications, 0.4 kg/m² each = 1.2 kg/m²
galvanized steel sheet:
2 applications, 0.35 kg/m² each = 0.7 kg/m²

Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as for disposal and ecology is found in the latest Safety Data Sheet.

Giscode: RE 3

The statements above are compiled from our field of production and according to the latest technological developments and application techniques. Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet.

Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid.

With the publication of this Technical Information Sheet all previous editions are no longer valid.

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