

Wear resistant, elastic Polyurea – Coating



We have been developing, producing and offering high-quality paints and coatings at our facility in Lüsslingen near Solothurn to a multilateral range of customers since 1906.

Today our progressive company prides itself as being a customer-oriented and innovative manufacturer of high-tech coating systems.

## CORODUR FLEX 80 – Cartridge System MixCoat Spray System



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# CORODUR FLEX 80 – Cartridge System

## MixCoat Spray System

Art.-Nr. 2014.0002 FLEX 80-Resin

Art.-Nr. 2534.0012 Hardener A-2528 RAL 7035

### Product description

CORODUR FLEX 80 is a permanently elastic and wear-resistant 2K polyurea coating with long processing time.

The application of the new Cartridge system with CORODUR FLEX 80 has proven to be very advantageous in practice and allows the user cost-effective spot repair options on site.

The level of product features of CORODUR FLEX 80 can be compared with high pressure polyurea systems such as CORODUR SV 90, CORODUR HT40 or WBA Lastic spray membrane.

Layer thicknesses of > 500µm can be easily applied in one process step.

Interspersing with round grain is possible due to the long pot life; it extends the field of application of CORODUR FLEX 80.

### Application areas

Wherever high, mechanical punctiform forces are to be distributed on a surface.

Such as:

- Machinery and apparatus engineering
- Sewer systems
- Hydropower plants
- Penstocks
- Concrete coatings
- Transport and conveyor systems
- Steel and Oil industry
- Floor and roof coating
- Mining
- Containers for bulk goods
- Paper industry
- Shipbuilding



<b>Binding agent</b>	Polyethers, Polyamines and Polyisocyanates			
<b>Buildup suggestions</b>	<b>Steel</b>	After grit blasting (Sa 2 1/2; Rz 60 µm), prime with CORODUR Primer reddish, coat with CORODUR FLEX 80 after minimum 80 minutes (20° C); maximum after 2 hours.		
	<b>Aluminium</b>	Blasting with abrasive dust, priming with ECLATIN Washprimer. After at least 2 hours build up with the CORODUR FLEX 80 coating system.		
	<b>Wood and Concrete</b>	Prime with CORODUR FIX or COPRASOL Deep Primer; after 2 hours at the earliest, but max. after 12 hours, coat with CORODUR FLEX 80.		
<b>Application</b>	MixCoat Spray System			
<b>Mixing ratio</b>	1 : 1 parts by weight volumetric CORODUR FLEX 80 (resin) with hardener A-2528 grey			
<b>Humidity</b>	During the coating max. 90% relative humidity Attention: observe the dew point min. + 3 ° K			
<b>End properties</b>	These are reached after about 3–5 days at 20° C,			
<b>Additional layers at 20° C</b>	After minimum 2 and maximum 12 hours an additional coating with CORODUR FLEX 80 coating system is possible. After this period the surface must be reactivated with CORODUR Primer reddish. (see leaflet CORODUR Primer reddish).			
<b>Mechanical properties</b>	Tensile strength	N/mm2	≥ 15	EN DIN ISO 53504
	Tear propagation resistance	N/mm2	≥ 20	EN DIN ISO 53515
	Shore A	hardness	78 ± 5	
	Elongation at break		> 400 %	EN DIN ISO 53504
	Abrasion	mm³	≤ 100	EN DIN ISO 53516
	Tensile strenght	N/mm²	≥ 25	EN DIN ISO 53455
	Tensile elongation		450 %	EN DIN ISO 53485
	Impact resilience		≥ 35	EN DIN ISO 53512
	Density injected		1,01 – 1,05 kg/l	
	Water vapour diffusion coefficient		K 1000	
	Skid resistance class		meets	EN DIN ISO 51110
<b>Stability</b>	<ul style="list-style-type: none"> <li>• Frost / de-icing salt impact</li> <li>• Swelling in water</li> <li>• Root growths</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrochloric acid 20 %</li> <li>• Caustic soda 20 %</li> <li>• Bituminous substances</li> </ul>	<ul style="list-style-type: none"> <li>• UV radiation</li> <li>• Rotting</li> </ul>	
<b>Packaging Unit</b>	min. 1 box à 6 SET			