

RepaCoat CH

(former: ProChem)

PRODUCT DESCRIPTION

RepaCoat CH is a liquid or putty, cold curing epoxy formulation with an excellent chemical resistance, achieved by the use of specific resin and hardener, as well as additive and inert fillers. **RepaCoat CH** is can be used to protect against highly corrosive chemical mixtures.

TYPICAL APPLICATIONS

2-Component-Coating with an excellent chemical resistance for:

- Tanks, tubes, pipes and pumps in the chemical and oil industry
- Exhaust systems

PROPERTIES

- Protects the basic material against aggressive media
- Highly resistant against most organic solvents
- Highly resistant against most acids
- Slightly increase the service life of pipes, pumps and silos
- Easy application by brush or spray

SORTIMENT

Name	No.	Consistency	Spray
RepaCoat CH 40 P grau	2111	pasty	no
RepaCoat CH 40 FL rot	2047	liquid	yes
RepaCoat CH 40 FL schwarz	2110	liquid	yes

SHELL LIFE

- 12 month

PACKAGE SIZE (CPL.)

- 100g, 250g, 500g, 1000g

PROCESSING

• Preparation

Roughen surface to increase adhesion by grinding or sand blasting, clean with **DIAMANT Cleaner**.

• Mixing

Mix resin and hardener intensively in the proper mixing ratio.

• Application

RepaCoat CH can be applied by brush, applicator, roll or spray. Optimal spraying conditions must be determined in pre-trials (Best results can be achieved by heating up to 50°C and increasing pressure to 200 - 300 bar).

Minimum thickness is 0.35 mm. To improve the molecular bonding, a second layer should be applied. If the item is subjected to strong vibrations, the coating should not exceed 1mm. Deeper gaps can be filled RepaCoat CH 40 P.

• Curing:

RepaCoat CH is fully chemical resistant after 7 days at room temperature. The curing time can be accelerated by moderate heating up to a maximum temperature of 50°C for 24 hours.

• Caution:

For trouble-free hardening the temperature should never drop below 5°C.

PARTICAL GUIDANCE

To repair major material defects, and to reach a higher corrosion protection use **RepaCoat Primer** first. (view product information **RepaCoat Primer**). Then apply **RepaCoat CH**.



RepaCoat CH – Technical Datas	
Pot life (+20°C) [Min]	40
Curing time (+20°C) [h]	24
Completely cured/chemical fully resistant (+20°C) [days]	7
Specific weight [g/cm ³]	1,3
E-Modul DIN 53457 [N/mm ²]	5200
Compressive strength [N/mm ²]	120
Tensile strenght [N/mm ²]	48
Tensile shear strenght [N/mm ²]	18
Hardening (after 48 h.) [Shore D]	>80
Temperature resistance [°C]	-20 up to +170
Specific surface resistance [Ωcm]	1,2 x 10 ¹⁴
mixing ratio resign / hardener [by volume]	2:1
Mixing ratio resign / hardener [by weight]	2,6:1
Amount for 1m ² (layer thickness 0,35mm) [g]	~500
Min working temperature [°C]	+15
Min. layer thickness (mm)	0,35
Max. air humidity during processing [%]	75

RepaCoat CH - Chemical Resistances		
Organic Chemicals		
Acetone	1-2	bulking
Methanol	1-2	
Methylene chlorid	2	bulking
Phenol (diluted)	1-2	
Acids		
acetic acid (10%)	1-2	
acetic acid (50%)	3	
lactic acid	1	
phosphoric acid (85%)	1	
nitric acid (10%)	1-2	
nitric acid (60%)	3	
hydrochloric acid (37%)	2	
sulphuric acid (96%)	1-2	Mat surface
Bases		
ammonium hydroxide (20%)	1	
potassium hydroxide (20%)	1	
sodium hydroxide (20%)	1	

- 1 = completely resistant
- 2 = conditionally resistant
- 3 = not resistant

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 m20 °C 863°F and 1013 mbar (1013hPa).

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The technical data quoted here is determined under laboratory conditions and verified to date of product manufacturing through quality assurance processes. Changes are reserved and can be carried out without prior notice. Data verification is in the responsibility of the customer and should be requested prior to material order with DIAMANT. The application, use and processing of the products are beyond our control and are therefore the sole responsibility of the buyer. If, however, liability in question, it is for all damages restricted to the value of goods delivered by us. We guarantee the quality of our products based on our general sales and delivery conditions. All specifications differ depending on the loads and operating conditions. Practical application data will be provided on request in each case.