



// ONE BRAND // ONE SOURCE // ONE SYSTEM



Corrosion Protection Lining

Our complete range of Corrosion Protection Lining products.

Corrosion Protection Lining

CHEMOLINE 4

Soft rubber lining.

CHEMONIT 13

Hard rubber lining.

Questionnaire 16



CORROSION PROTECTION LINING
CHEMOLINE 3CN – Soft rubber lining

CHEMOLINE 3CN – Soft rubber lining

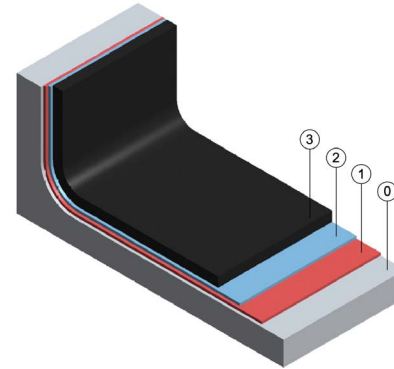
CHEMOLINE 3 CN is an already vulcanised black soft rubber lining based on Chloroprene rubber (CR), which is equipped with an easy to bond, reactive bonding layer. CHEMOLINE 3 CN can be loaded directly without further vulcanisation.

Properties

- Strong chemical resistance against mineral acids, bases, and aromatic oils
- Outstanding resistance against media containing a high percentage of solids
- Application onto steel and concrete components
- On site rubber lining

Area of application

- CHEMOLINE 3 CN is used mainly for on-site rubber linings of steel and concrete components which are exposed to abrasive conditions and chemical loads.
- The field of applications are chemical plants, chlorine and steel industries, mineral processing plants and environmental protection plants.
- Some typical examples of applications are the lining of storage tanks, agitated tanks and pipelines.



Application process

- CHEMOLINE 3CN**
- 0 - Steel, blasted
 - 1 - PRIMER PR 304
 - 2 - CEMENT BC 3004
 - 3 - CHEMOLINE 3CN

CHEMOLINE 3CN

Specifications

Polymer basis	CR	ISO 1629
Abrasion	≤ 200 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.45 ± 0.02 g/cm ³	EN ISO 1183-1
Hardness	60 ± 7 Shore A	ISO 7619-1 (ASTM D2240)
Max Surface Pressure	2 N/mm ²	
Elongation at Break	≥ 300%***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 6 N/mm ² ***	DIN 53504 (ASTM D412)
Impact Resilience	≥ 25%	DIN 53512 (ASTM D1054)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Thermal Conductivity	0.32 W/m K	DIN 51046
Water Vapour Permeability	0.25 g/m ² d**	DIN 53122
Max Continuous Operating Temp	+85 °C	
Temperature Range	-30 up to +85 °C	

Ref. No.	Designation	Dimensions
528 7842	CHEMOLINE 3/CN	3 mm x 1100 mm x 10000mm
528 7859	CHEMOLINE 3/CN	4 mm x 1100 mm x 10000mm
528 7866	CHEMOLINE 3/CN	5 mm x 1100 mm x 10000mm
528 7873	CHEMOLINE 3/CN	6 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
REMA PERFORMANCEline CHEMO 4CN – Chemical resistant premium lining

REMA PERFORMANCEline CHEMO 4CN – Chemical resistant premium lining

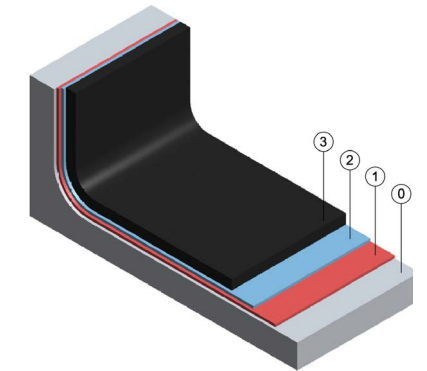
REMA PERFORMANCEline CHEMO 4CN is a chemical resistant soft-rubber lining material, based on bromobutyl rubber, suitable for steel- and concrete components which are exposed to high chemical loads. This new product is equipped with a smooth and glossy surface and has an improved UV resistance. The smooth surface reduces build up and caking problems during the whole process. It provides outstanding diffusion resistance, strong chemical resistance and a long service life accordingly.

Properties

- Simple and fast lining application
- Homogenous / uniform curing of the sheet gives it a longer life span
- Improved UV resistance
- The glossy surface reduces the chances of material build-up/depositing
- Strong chemical resistance
- Versatility of application surfaces like concrete, steel, stainless steel

Area of application

- On site linings of chemical contaminated steel and concrete.
- Chemical, chlorine, fertilizer, deionized water tanks in nuclear plants, ore processing up to environmental protection.
- Linings of bearing & stirrers, crystallization and condensation reactors, thickeners, pipelines and process tanks flue gas desulphurisation.



Application process

- CHEMOLINE 4CN**
- 0 - Steel, blasted
 - 1 - PRIMER PR 304
 - 2 - CEMENT BC 3004
 - 3 - CHEMOLINE 4CN

REMA PERFORMANCEline CHEMO 4CN

Specifications

Polymer basis	BIIR	DIN ISO 1629
Specific Weight	1.25 g/cm ³	DIN EN ISO 1183-1
Hardness	55 Shore A	DIN ISO 7619-1
Colour	Black	
Abrasion	≤ 320 mm ³	DIN ISO 4649
Max Surface Pressure	2 N/mm ²	
Surface Resistance	Ω ≥ 10 ¹²	DIN IEC 60093
Peel strength to Steel	≥ 4 N/mm	ISO 813
Water Vapour Permeability	0.04g/m ² d	DIN 53122

Ref. No.	Designation	Dimensions
521 5000	REMA PERFORMANCEline CHEMO 4CN	3 mm x 1100 mm x 10000mm
521 5005	REMA PERFORMANCEline CHEMO 4CN	4 mm x 1100 mm x 10000mm
521 5010	REMA PERFORMANCEline CHEMO 4CN	5 mm x 1100 mm x 10000mm
521 5015	REMA PERFORMANCEline CHEMO 4CN	6 mm x 1100 mm x 10000mm

CORROSION PROTECTION LINING
CHEMOLINE 4A – Soft rubber lining

CHEMOLINE 4A – Soft rubber lining

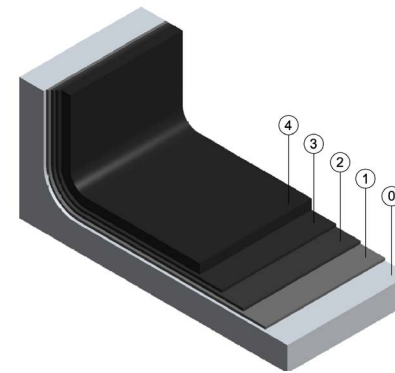
CHEMOLINE 4 A is a black soft rubber lining based on Bromobutyl rubber (BIIR).

Properties

- Strong chemical resistance against mineral acids, bases, polar solvents and salt solutions
- Outstanding diffusion resistance to sulphur dioxide and saturated water vapour
- High thermal stability (max. +110°C)
- Application onto steel components
- Workshop rubber lining

Area of application

- CHEMOLINE 4 A is used mainly for the workshop rubber lining of steel components which are exposed to chemical loads.
- The field of applications are chemical plants, chlorine and steel industries, fertilizer manufacturing plants, phosphoric acid plants, mineral processing plants, power plants and environmental protection plants.
- Some typical examples of applications are the lining of storage tanks, agitated tanks, crystallization and condensation reactors and pipelines in flue gas desulphurisation (FGD) plants.



Application process

- CHEMOLINE 4A**
- 0 - Steel, blasted
 - 1 - PRIMER PR 500-1
 - 2 - PRIMER S 500-2
 - 3 - ADHESIVE TC 5000
 - 4 - CHEMOLINE 4A

CHEMOLINE 4A

Specifications

Polymer basis	BIIR	ISO 1629
Abrasion	≤ 320 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.25 ± 0.02 g/cm ³	EN ISO 1183-1
Hardness	55 ± 5 Shore A	ISO 7619-1 (ASTM D2240)
Max Surface Pressure	2 N/mm ²	
Elongation at Break	≤ 600***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 5 N/mm ² ***	DIN 53504 (ASTM D412)
Impact Resilience	≥ 6%	DIN 53512 (ASTM D1054)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Thermal Conductivity	0.33 W/m K	DIN 51046
Water Vapour Permeability	0.04 g/m ² d**	DIN 53122
Max Continuous Operating Temp	+110 °C	
Temperature Range	-40 up to +110 °C	

Ref. No.	Designation	Dimensions
528 2720	CHEMOLINE 4A	2 mm x 1100 mm x 10000mm
528 2768	CHEMOLINE 4A	3 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMOLINE 4B – Soft rubber lining

CHEMOLINE 4B – Soft rubber lining

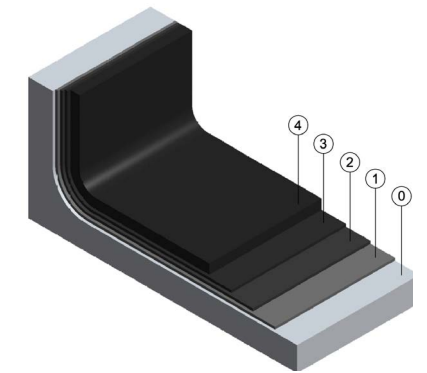
CHEMOLINE 4 B is a self-vulcanizing black rubber lining based on Bromobutyl rubber (BIIR).

Properties

- Strong chemical resistance against mineral acids, bases, polar solvents and salt solutions
- Outstanding diffusion resistance to sulphur dioxide and saturated water vapour
- High thermal stability (max. +110°C)
- Application onto steel components
- On site rubber lining

Area of application

- CHEMOLINE 4 B is used mainly for on-site and workshop rubber linings of steel components which are exposed to chemical loads.
- The field of applications are chemical plants, chlorine and steel industries, fertilizer manufacturing plants, phosphoric acid plants, mineral processing plants, power plants and environmental protection plants.
- Some typical examples of applications are the lining of storage tanks, agitated tanks, thickeners, as well as structural components of flue gas desulphurisation (FGD) plants such as absorbers and more.



Application process

- CHEMOLINE 4B**
- 0 - Steel, blasted
 - 1 - PRIMER PR 500-1
 - 2 - PRIMER S 500-2
 - 3 - ADHESIVE TC 5000
 - 4 - CHEMOLINE 4B

CHEMOLINE 4B

Specifications

Polymer basis	BIIR	ISO 1629
Abrasion	≤ 320 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.25 ± 0.02 g/cm ³	EN ISO 1183-1
Hardness	55 ± 5 / 60 ± 5 Shore A****	ISO 7619-1 (ASTM D2240)
Elongation at Break	≥ 600%***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 5 N/mm ² ***	DIN 53504 (ASTM D412)
Impact Resilience	≥ 6%*	DIN 53512 (ASTM D1054)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Thermal Conductivity	0.33 W/m K	DIN 51046
Water Vapour Permeability	0.04 g/m ² d***	DIN 53122
Max Continuous Operating Temp	+110 °C	
Temperature Range	-40 up to +110 °C	

Ref. No.	Designation	Dimensions
528 2933	CHEMOLINE 4B	2 mm x 1100 mm x 10000mm
528 2971	CHEMOLINE 4B	3 mm x 1100 mm x 10000mm
528 3011	CHEMOLINE 4B	4 mm x 1100 mm x 10000mm
528 3059	CHEMOLINE 4B	5 mm x 1100 mm x 10000mm
528 3059	CHEMOLINE 4B	6 mm x 1100 mm x 10000mm

* Press vulcanisation
*** 4mm rubber
**** After pressure less vulcanisation (sample plates)
**** After complete vulcanisation under operating conditions

CORROSION PROTECTION LINING
CHEMOLINE 4CN – Soft rubber lining

CHEMOLINE 4CN – Soft rubber lining

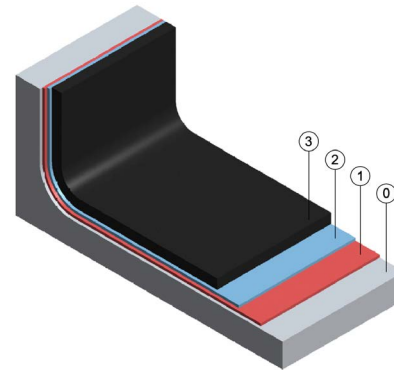
CHEMOLINE 4 CN is an already vulcanised black soft rubber lining based on Bromobutyl rubber (BIIR), which is equipped with an easy to bond, reactive bonding layer. CHEMOLINE 4 CN can be loaded directly without further vulcanisation.

Properties

- Strong chemical resistance against mineral acids, bases, polar solvents and salt solutions
- Outstanding diffusion resistance to sulphur dioxide and saturated water vapour
- Application onto steel and concrete components
- Can be exposed to the operation conditions right after the application
- On site rubber lining

Area of application

- CHEMOLINE 4 CN is used mainly for on-site rubber linings of steel and concrete components which are exposed to chemical loads.
- The field of applications are chemical plants, chlorine and steel industries, fertilizer manufacturing plants, power plants, mineral processing plants and environmental protection plants.
- Some typical examples of applications are the lining of storage tanks, agitated tanks, crystallization and condensation reactors, thickeners, pipe spools and more.



Application process

- CHEMOLINE 4CN**
- 0 - Steel, blasted
 - 1 - PRIMER PR 304
 - 2 - CEMENT BC 3004
 - 3 - CHEMOLINE 4CN

CHEMOLINE 4CN

Specifications

Polymer basis	BIIR	ISO 1629
Abrasion	≤ 320 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.25 ± 0.02 g/cm ³	EN ISO 1183-1
Hardness	55 ± 5 Shore A**	ISO 7619-1 (ASTM D2240)
Max Surface Pressure	2 N/mm ²	
Elongation at Break	≥ 370 %***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 4 N/mm ² ***	DIN 53504 (ASTM D412)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Thermal Conductivity	0.32 W/m K	DIN 51046
Water Vapour Permeability	0.04 g/m ² d***	DIN 53122
Max Continuous Operating Temp	+90 °C	
Temperature Range	-40 up to +90 °C	

Ref. No.	Designation	Dimensions
528 7897	CHEMOLINE 4CN	3 mm x 1100 mm x 10000mm
528 7907	CHEMOLINE 4CN	4 mm x 1100 mm x 10000mm
528 7914	CHEMOLINE 4CN	5 mm x 1100 mm x 10000mm
528 7921	CHEMOLINE 4CN	6 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMOLINE 12CN FDA – Soft rubber lining

CHEMOLINE 12CN FDA – Soft rubber lining

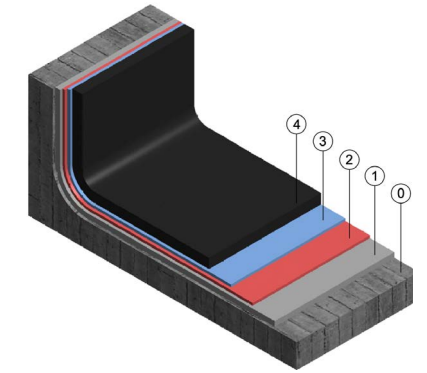
CHEMOLINE 12 CN is an already vulcanised black soft rubber lining based on Chlorobutyl rubber (CIIR), which is equipped with an easy to bond, reactive bonding layer. CHEMOLINE 12 CN can be loaded directly without further vulcanisation.

Properties

- Strong resistance against mineral acids, bases and polar solvents
- Excellent diffusion resistance against gases like sulphur dioxide, nitrogen oxides, and saturated water vapour
- High insulation resistance
- Application onto steel and concrete components
- Can be exposed to the operation conditions right after the application
- On site rubber lining
- Certificate of suitability for aqueous food in accordance with the guidelines CFR 21§ 177.2600 of the Food and Drug Administration (FDA)

Area of application

- CHEMOLINE 12 CN is developed specifically for the on-site rubber lining of chemically loaded steel or concrete components.
- The field of applications are mainly water treatment facilities and the chemical industry.
- Some typical examples of applications are the linings of storage tanks and agitated tanks, basins, pipe spools as well as various vessels in the phosphoric acid industry.



Application process

- CHEMOLINE 12CN FDA**
- 0 - Concrete, blasted
 - 1 - REMAFIX C (Smoothing coat, conductive)
 - 2 - PRIMER PR 304
 - 3 - CEMENT BC 3004
 - 4 - CHEMOLINE 12 CN

CHEMOLINE 12CN FDA

Specifications

Polymer basis	CIIR	ISO 1629
Abrasion	≤ 300 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.08 ± 0.02 g/cm ³	EN ISO 1183-1
Hardness	50 ± 5 Shore A**	ISO 7619-1 (ASTM D2240)
Max. Surface Pressure	2 N/mm ²	
Surface Resistance	≥ 10 Ω	DIN IEC 60093
Elongation at Break	≥ 150 %***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 6 N/mm ² ***	DIN 53504 (ASTM D412)
Impact Resillience	≥ 6 %	DIN 53512 (ASTM D1054)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Max Continuous Operating Temp	+70 °C	
Temperature Range	-40 up to +70 °C	

Ref. No.	Designation	Dimensions
528 2300	CHEMOLINE 12CN	3 mm x 1100 mm x 10000mm
528 2310	CHEMOLINE 12CN	4 mm x 1100 mm x 10000mm
528 2320	CHEMOLINE 12CN	5 mm x 1100 mm x 10000mm
528 2330	CHEMOLINE 12CN	6 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMOLINE 13 – Soft rubber lining

CHEMOLINE 13 – Soft rubber lining

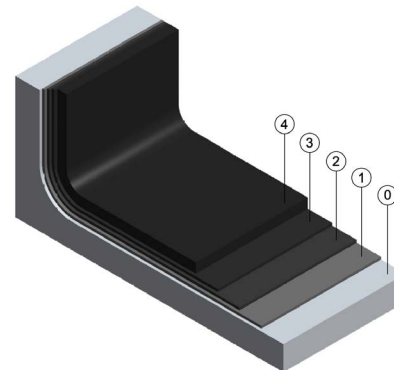
CHEMOLINE 13 is a black soft rubber lining based on Bromobutyl rubber (BIIR). CHEMOLINE 13 shows excellent chemical resistance against concentrated hydrochloric acid and hypochlorite.

Properties

- Very good resistance against mineral acids, bases, polar solvents and especially against concentrated hydrochloric acid $\leq 38\%$ up to $+60^\circ\text{C}$ and sodium hypochlorite
- Excellent diffusion resistance against gases like sulphur dioxide, nitrogen oxides, and saturated water vapour
- Suitable for vacuum services
- High thermal stability (max. $+115^\circ\text{C}$)
- Application onto steel components
- On site & Workshop rubber lining

Area of application

- CHEMOLINE 13 is used mainly for workshop and on-site rubber linings of steel components which are exposed to chemical loads.
- The field of applications are mainly chemical plants, chlorine and steel industries, mineral processing plants and environmental protection plants.
- Some typical examples of applications are the lining of storage tanks, agitated tanks, crystallization and condensation reactors and flue gas desulphurisation plants (FGD). Furthermore CHEMOLINE 13 is used in phosphoric acid plants and autoclaves.



Application process

- CHEMOLINE 13**
- 0 - Steel, blasted
 - 1 - PRIMER PR 500-1
 - 2 - PRIMER S 500-2
 - 3 - ADHESIVE TC 5000
 - 4 - CHEMOLINE 13

CHEMOLINE 13

Specifications

Polymer basis	BIIR	ISO 1629
Abrasion	$\leq 250 \text{ mm}^3$ *	ISO 4649 (ASTM D5963)
Density	$1.24 \pm 0.02 \text{ g/cm}^3$	EN ISO 1183-1
Hardness	$60 \pm 5 \text{ Shore A}^{**}$	ISO 7619-1 (ASTM D2240)
Max Surface Pressure	2 N/mm^2	
Elongation at Break	$\geq 450\%^{***}$	DIN 53504 (ASTM D412)
Tensile Strength	$\geq 8 \text{ N/mm}^2^{***}$	DIN 53504 (ASTM D412)
Impact Resilience	$\geq 8\%$	DIN 53512 (ASTM D1054)
Peel Strength to Steel	$\geq 4 \text{ N/mm}$	ISO 813
Water Vapour Permeability	$0.08 \text{ g/m}^2 \text{ d}^{***}$	DIN 53122
Max Continuous Operating Temp	$+115^\circ\text{C}$	

Ref. No.	Designation	Dimensions
528 7100	CHEMOLINE 13	2 mm x 1100 mm x 10000mm
528 1710	CHEMOLINE 13	3 mm x 1100 mm x 10000mm
528 1720	CHEMOLINE 13	4 mm x 1100 mm x 10000mm
528 1730	CHEMOLINE 13	5 mm x 1100 mm x 10000mm
528 1740	CHEMOLINE 13	6 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMOLINE 70CN – Soft rubber lining

CHEMOLINE 70CN – Soft rubber lining

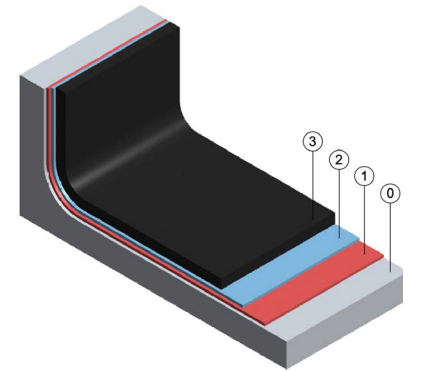
CHEMOLINE 70 CN is an already vulcanised black soft rubber lining based on Chlorobutyl rubber and Polyvinyl Chloride (CIIR / PVC), which is equipped with an easy to bond, reactive bonding layer. CHEMOLINE 70 CN shows excellent resistance against concentrated hydrochloric acid at temperatures up to $+60^\circ\text{C}$. CHEMOLINE 70 CN can be loaded directly without further vulcanisation.

Properties

- Very good resistance against mineral acids, bases and especially against concentrated hydrochloric acid $\leq 38\%$ up to $+60^\circ\text{C}$
- Application onto steel and concrete components
- Can be exposed to the operation conditions right after the application
- On site rubber lining

Area of application

- CHEMOLINE 70 CN is used mainly for on-site rubber linings of steel or concrete storage containers for concentrated hydrochloric acid up to $+60^\circ\text{C}$.
- Further examples to the applications include the lining of acid pickling lines (pickling baths) and electroplating baths.



Application process

- CHEMOLINE 70CN**
- 0 - Steel, blasted
 - 1 - PRIMER PR 304
 - 2 - CEMENT BC 3004
 - 3 - CHEMOLINE 70 CN

CHEMOLINE 70CN

Specifications

Polymer basis	CIIR/PVC	ISO 1629
Density	$1.18 \pm 0.02 \text{ g/cm}^3$	EN ISO 1183-1
Contact Resistance	$1.5 \times 10^{(11)} \Omega \text{ cm}$	DIN IEC 60093
Hardness	$57 \pm 5 \text{ Shore A}^{**}$	ISO 7619-1 (ASTM D2240)
Max. Surface Pressure	2 N/mm^2	
Surface Resistance	$3.5 \times 10^{(11)} \Omega$	DIN IEC 60093
Elongation at Break	$\geq 400\%^{***}$	DIN 53504 (ASTM D412)
Tensile Strength	$\geq 2.5 \text{ N/mm}^2^{***}$	DIN 53504 (ASTM D412)
Peel Strength to Steel	$\geq 4 \text{ N/mm}$	ISO 813
Max Continuous Operating Temp	$+80^\circ\text{C}$	
Temperature Range	$-30 \text{ up to } +80^\circ\text{C}$	

Ref. No.	Designation	Dimensions
528 8140	CHEMOLINE 70CN	3 mm x 1100 mm x 10000mm
528 8157	CHEMOLINE 70CN	4 mm x 1100 mm x 10000mm
528 8164	CHEMOLINE 70CN	5 mm x 1100 mm x 10000mm
528 8171	CHEMOLINE 70CN	6 mm x 1100 mm x 10000mm

** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMOLINE RTCN – Soft rubber lining

CHEMOLINE RT CN – Soft rubber lining

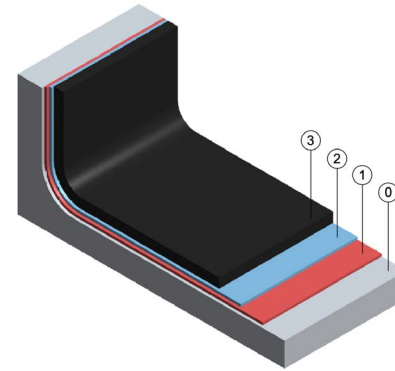
CHEMOLINE RT CN is an already vulcanised black soft rubber lining based on a copolymerised Bromobutyl rubber (BIIR), which is equipped with an easy to bond, reactive bonding layer. CHEMOLINE RT CN can be loaded directly without further vulcanisation.

Properties

- Strong resistance against mineral acids
- Strong resistance against temperature excursions
- Good resistance against UV and ozone
- Application onto steel and concrete components
- Can be exposed to the operation conditions right after the application
- On site rubber lining

Area of application

- CHEMOLINE RT CN is used mainly for the on-site rubber lining of the steel components which are exposed to chemical loads.
- The field of applications are mainly chemical plants, chlorine and steel industries, mineral processing plants and environmental protection plants.
- Some typical examples of applications are the rubber linings of storage tanks, agitated tanks, crystallization and condensation reactors and road tankers.



Application process

- CHEMOLINE RT CN**
- 0 - Steel, blasted
 - 1 - PRIMER PR 304
 - 2 - CEMENT BC 3004
 - 3 - CHEMOLINE RT CN

CHEMOLINE RT CN

Specifications

Polymer basis	BIIR	ISO 1629
Abrasion	≤ 250 mm ³ *	ISO 4649 (ASTM D5963)
Density	1.23 ± 0.02 g/cm ³	EN ISO 1183-1
Contact Resistance	7.0 x 10(10) Ω cm	DIN IEC 60093
Hardness	65 ± 5 Shore A**	ISO 7619-1 (ASTM D2240)
Max Surface Pressure	2 N/mm ²	
Surface Resistance	90 x 10(10) Ω	DIN IEC 60093
Elongation at Break	≥ 150 %***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 8 N/mm ² **	DIN 53504 (ASTM D412)
Impact Resilience	≥ 8%	DIN 53512 (ASTM D1054)
Peel Strength to Steel	≥ 4 N/mm	ISO 813
Temperature Range	-40 up to +120 °C	

Ref. No.	Designation	Dimensions
528 8140	CHEMOLINE RT CN	3 mm x 1100 mm x 10000 mm
528 8157	CHEMOLINE RT CN	4 mm x 1100 mm x 10000 mm
528 8164	CHEMOLINE RT CN	5 mm x 1100 mm x 10000 mm
528 8171	CHEMOLINE RT CN	6 mm x 1100 mm x 10000 mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

CORROSION PROTECTION LINING
CHEMONIT 33 – Hard rubber lining

CHEMONIT 33 – Hard rubber lining

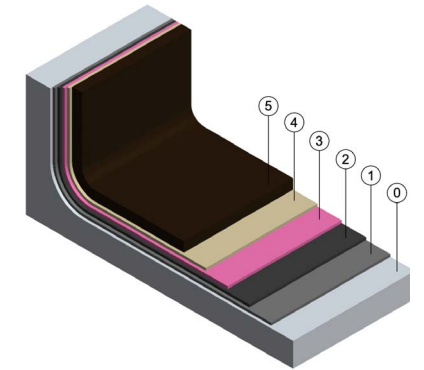
CHEMONIT 33 is an anthracite-coloured, graphite-filled hard rubber lining based on Natural rubber (NR).

Properties

- Strong chemical resistance against mineral acids, bases and especially excellent resistance against wet chlorine and concentrated hydrochloric acid
- High diffusion resistance
- High thermal stability (max. +105°C)
- Application onto steel components
- Workshop rubber lining

Area of application

- CHEMONIT 33 is used mainly for the workshop rubber lining of steel components which are exposed to chemical loads.
- The field of applications are mainly chemical plants, chlorine and steel industry, mineral processing plants, electroplating facilities and environmental protection plants.
- Some typical examples of applications are the rubber linings of storage tanks, filter tanks, agitated tanks, ion exchangers, electroplating baths, centrifuge drums and flue gas scrubbers in waste incinerators, pipe spools.



Application process

- CHEMONIT 33**
- 0 - Steel, blasted
 - 1 - PRIMER HG 1
 - 2 - PRIMER HG 2
 - 3 - ADHESIVE SH-3A SOLUTION
 - 4 - ADHESIVE PARA SOLUTION
 - 5 - CHEMONIT 33

CHEMONIT 33

Specifications

Polymer basis	NR	ISO 1629
Bending Strength	≥ 80 N/mm ² *	EN ISO 178
Density	1.16 ± 0.02 g/cm ³	EN ISO 1183-1
Modulus of Elasticity	≥ 2000* N/mm ²	EN ISO 527 (ASTM D638)
Hardness	75 ± 5 Shore D**	ISO 7619-1 (ASTM D2240)
Max. Surface Pressure	10 N/mm ²	
Adhesion Strength Steel	≥ 6 N/mm ²	EN ISO 4624 (ASTM D429; method E)
Elongation at Break	≥ 3%***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 40 N/mm ² **	DIN 53504 (ASTM D412)
Coefficient of Thermal Expansion	90 x 10(-6) 1/K	DIN 53752
Max Continuous Operating Temp	+100 °C	
Temperature Range	-15 up to +100 °C	

Ref. No.	Designation	Dimensions
529 3922	CHEMONIT 33	2 mm x 1100 mm x 10000 mm
529 3960	CHEMOLINE 70CN	3 mm x 1100 mm x 10000 mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4 mm rubber

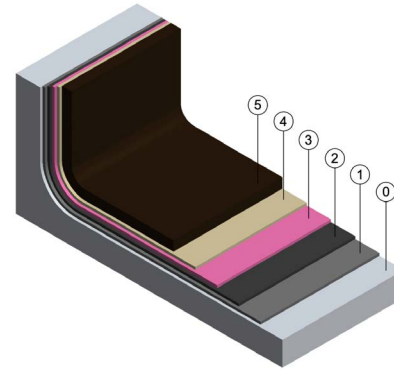
CORROSION PROTECTION LINING
CHEMONIT 181 – Hard rubber lining

CHEMONIT 181 – Hard rubber lining

CHEMONIT 181 is a black hard rubber lining based on Polyisoprene rubber (IR) and Styrene Butadiene rubber (SBR).

Properties

- Strong chemical resistance against mineral acids and bases
- High diffusion resistance
- Application onto steel components
- Workshop rubber lining
- CHEMONIT 181 is approved (Z-59.22-142) by the German Institute of Construction Technology (DIBt) for steel storage vessels.
- Certificate of suitability for aqueous food in accordance with the guidelines CFR 21§ 177.2600 of the Food and Drug Administration (FDA)
- BS 6920 (British Standard) => WRAS-listing



Application process

Area of application

- CHEMONIT 181 is used mainly for the workshop rubber lining of steel components which are exposed to chemical loads. The field of applications are mainly chemical plants, chlorine and steel industry, electricity generating plants, mineral processing plants and environmental protection plants. Some typical examples of applications are the rubber linings of storage tanks, filter tanks, agitated tanks, water treatment tanks, crystallization reactors, centrifuge drums as well as various tanks and pipelines in nuclear power plants.

CHEMONIT 181

- 0 - Steel, blasted
- 1 - PRIMER HG 1
- 2 - PRIMER HG 2
- 3 - ADHESIVE SH-3A SOLUTION
- 4 - ADHESIVE PARA SOLUTION
- 5 - CHEMONIT 181

CHEMONIT 181

Specifications

Polymer basis	IR/SBR	ISO 1629
Bending Strength	≥ 40 N/mm ² *	EN ISO 178
Density	1.32 ± 0.02 g/cm ³	EN ISO 1183-1
Contact Resistance	10(11) Ω cm	DIN IEC 60093
Modulus of Elasticity	≥ 1500 N/mm ² *	EN ISO 527 (ASTM D638)
Hardness	75 ± 5 Shore D**	ISO 7619-1 (ASTM D2240)
Max. Surface Pressure	10 N/mm ²	
Adhesion Strength Steel	≥ 6 N/mm ²	EN ISO 4624 (ASTM D429; method E)
Elongation at Break	≥ 3.5%***	DIN 53504 (ASTM D412)
Tensile Strength	≥ 20 N/mm ² ***	DIN 53504 (ASTM D412)
Coefficient of Thermal Expansion	70 x 10 ⁻⁶ 1/K	DIN 53752
Max Continuous Operating Temp	+100 °C	
Temperature Range	-25 up to +100 °C	

CORROSION PROTECTION LINING
CHEMONIT 181 – Hard rubber lining

Ref. No.	Designation	Dimensions
529 4921	CHEMONIT 181	2 mm x 1100 mm x 10000mm
529 4969	CHEMONIT 181	3 mm x 1100 mm x 10000mm
529 5009	CHEMONIT 181	4 mm x 1100 mm x 10000mm
529 5047	CHEMONIT 181	5 mm x 1100 mm x 10000mm
529 5085	CHEMONIT 181	6 mm x 1100 mm x 10000mm

* Press vulcanisation
** Autoclave vulcanisation
*** 4mm rubber

QUESTIONNAIRE

CLIENT			
Request From:			
Client:		Country:	

PLANT PARTS					
Plant Part:				Area:	
Current Corrosion Protection System:					
Protection against:	<input type="checkbox"/> Corrosion	<input type="checkbox"/> Temperature	<input type="checkbox"/> Wear	<input type="checkbox"/>	
Required Corrosion Protection System:	<input type="checkbox"/> Brick Lining	<input type="checkbox"/> Coating	<input type="checkbox"/> On-Site Rubber	<input type="checkbox"/> Workshop Rubber	
Lining Design:	<input type="checkbox"/> Complete	<input type="checkbox"/> Repair	<input type="checkbox"/> Partially	<input type="checkbox"/>	
Substrate:	<input type="checkbox"/> Concrete	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Steel	<input type="checkbox"/>	
Location:	<input type="checkbox"/> Outside	<input type="checkbox"/> Hall			
Insulated:	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Sizes:					

SERVICE CONDITIONS		Operating Temperature [°C]	
Thermal Load:	Permanent Load:		
	Occasional Load:		
	Emergency Load:		
Mechanical Load:	<input type="checkbox"/> Agitator <input type="checkbox"/> Solids	Solid Content [%]:	
	Flow Rate [m/s]:	Pressure [bar]:	
Chemical Load:	Composition		Conc.

REQUIRED PROPERTIES & APPROVALS			
<input type="checkbox"/> Conductive	<input type="checkbox"/> Wear Resistant	<input type="checkbox"/> Anti-Skid	<input type="checkbox"/> Others (as specified):
<input type="checkbox"/> Passable	<input type="checkbox"/> Non-Sticky	<input type="checkbox"/> UV-Resistant	
<input type="checkbox"/> NPP Approval	<input type="checkbox"/> FDA Certificate	<input type="checkbox"/> DIBt Approval	<input type="checkbox"/> Drinking Water Approval
<input type="checkbox"/> Others (as specified):			

LEGAL NOTICE

Copyright © 2020 REMA TIP TOP AG

All information is given to the best of our knowledge. All specifications are to be considered non-binding information. Any claim for damages of any kind is excluded. We reserve the right to change technical specifications without prior notice, provided that they ensure product improvement. The information presented is based on technical experience but does not guarantee a product's suitability for specific applications, and does not relieve the users of the responsibility to undertake their own testing, including where any third-party trademark rights are concerned. For special applications and operating conditions with regard to temperature, UV light, ozone, acids and alkaline solutions, dynamic and static forces, tensions, elongations and other influences, contact your local REMA TIP TOP distributor for technical advice.

Operating and working instructions, product information and general instructions on the vulcanization properties of natural and synthetic rubber should be followed carefully. The mechanical and physical values presented for our products only apply to the material listed (without bonding layer and without fabric) based on the accompanying inspections for approval; these represent statistical product data, but not guaranteed product properties. Detailed technical data sheets for each single product are available upon request. The weight indications (kg/m², kg/m, etc.) solely represent statistical values and are not necessarily identical to the actual weights. The weights indicated are merely guidelines for the handling, transport and application of our products. The dimension tolerances are based on part 5 of DIN 7715, classification P3 (admissible dimension tolerances for sheets) and DIN ISO 3302-1, classification M4 (molded parts made of soft-rubber). Other tolerances of specific products for special applications are subject to a mutual agreement and must be stipulated in a special contract. Products containing hazardous substances are labeled in accordance with the regulations (EG) No. 1907/2006 for the

classification, packaging and labeling of hazardous materials and preparations.

In order to preserve product properties, the storage conditions indicated in DIN 7716 should be followed (including storing the product in the original package and in an area that is dry, cool and dark).

Products printed in bold are normally available from stock.

Talk to our team today

 sales@rema-tiptop.com.au

 rema-tiptop.com.au

 **Beresfield (Head Office)**

02 4935 0200
79 Elwell Close,
Beresfield, NSW 2322

Brisbane

07 3710 8833
52 Wentworth Place,
Northgate, QLD 4014

Mackay

07 4953 9100
29-33 Maggiolo Drive,
Paget, QLD 4740

Perth

08 6253 1900
102 Kurnall Road,
Welshpool, WA 6106

Dandenong

03 8786 3333
2 Venture Court,
Dandenong South, VIC 3175

Adelaide

08 8169 2850
11 Lafitte Road,
Wingfield, SA 5013

Newman

08 6253 1900
21 Pardoo Street,
Newman, WA 6753

Gladstone

07 3710 8820
3 McCabe Street,
Gladstone, QLD 4680



// ONE BRAND // ONE SOURCE // ONE SYSTEM