

PRODUCT INFORMATION

CHEMOLINE 8 CN (CSM/PVC)

General properties

CHEMOLINE 8 CN is a brown soft rubber material on the basis of chlorosulfonated polyethylene and polyvinyl chloride (CSM/PVC), equipped with a grey bonding layer, which is reactive and easy to bond.

This lining material is bonded onto steel, concrete and many other substrates by means of special TIP TOP contact adhesives, according to the cold bonding system.

As the vulcanisation (intramolecular cross-linkage) has already been carried out during manufacturing, neither subsequent thermal treatment nor longer waiting times until complete vulcanisation, are required after completion of the lining operation – the lining material can be put under chemical, mechanical and thermal stress immediately after the lining is completed.

The essential properties of the **CHEMOLINE 8 CN** lining material are its strong resistance to mineral acids, bases, polar solvents, hydrous phases and especially its excellent resistance to diffusion of gases such as sulphur dioxide, nitric oxides and saturated water vapour. Additionally we have to emphasize the resistance and the high suitability for applications in sodium hypochlorite or chromic acid environment.

The above mentioned lining material can be used from – 40 °C to + 80 °C. Other conditions should be checked upon request.

Fields of application

Due to its resistance to numerous chemicals the lining material **CHEMOLINE 8 CN** is worldwide used in the chemical, chlorine and steel industry, in mineral processing installations as well as in the field of environmental protection. Here, structural steel parts subject to high chemical, mechanical and thermal stress, such as storage bins, filter cells, mixing tanks, crystallisers, condensers can be protected from corrosion by using the **CHEMOLINE 8 CN** lining material.

Shelf life

CHEMOLINE 8 CN material can be stored without any loss of quality for a period of min. 24 months at a max. temperature of + 25 °C, subject to re-inspection thereafter.

The DIN 7716 standard has to be observed.

Application on steel

The lining material **CHEMOLINE 8 CN** is bonded onto steel by using the METAL PRIMER PR 300 in combination with CEMENT BC 3000. Alternatively the CFC-free adhesive system METAL PRIMER PR 304 / CEMENT BC 3004 can be used.

The standards EN 14879-1, DIN 28055 and DIN EN ISO 12944-4 have to be observed.

TIP TOP Oberflächenschutz Elbe GmbH	CHEMOLINE 8 CN	INDEX I of 30.01.2008
Page: 1/3	API	replaces Issue 02.04.2006

Induction test of the lining

The porosity test is carried out according to the German standard DIN 28055 with a spark tester (high voltage test). For induction test the Elmed-Isotester II RT or alternatively the Uniontester is to be used.

The test voltage has to be set as follows:

Lining material	Test voltage
CHEMOLINE 8 CN vulcanised	5 KV/mm (max. 20 KV)

Mechanical - Physical Characteristics

Properties	Units	Standard	Value
Polymer		DIN ISO 1629	CSM/PVC
Tensile strength	[MPa] S2 Bar	DIN 53 504	≥ 6 ¹⁾
Elongation at break	[%] S2 Bar	DIN 53504	≥ 300 ¹⁾
Hardness	[Shore A]	DIN 53 505	65 ± 5 ²⁾
Rebound resilience	[%]	DIN 53 512	≥ 20
Density	[g / cm ³]	DIN EN ISO 1183-1	1.25 ± 0.02
Bonding strength to steel	[N/mm]	DIN ISO 813	≥ 4
Test voltage	[KV/mm]	DIN 28 055	5
Temperature of use	[° C]		≤ 80
Surface Pressure	[MPa]		<u>2</u>

¹⁾ Press vulcanisation

²⁾ Autoclave vulcanisation

The information given above is based on approved test results and represents statistical product data, which however does not necessarily guarantee the specific properties of the product. We reserve the right to changes to technical specifications without prior notice, provided these ensure technical improvement without major modifications to the product itself.

Basic Program **CHEMOLINE 8 CN**

Availability and dimensions

Rubber sheets with PE separating sheets on hard core. Hanging freely in cardboard boxes.

Length [mm]	Width [mm]	Thickness [mm]	Quantity [m ²]	Product-No.
10.000	1.100	3	11	528 8047
10.000	1.100	4	11	528 8054
10.000	1.100	5	11	528 8061
10.000	1.100	6	11	528 8078

This data sheet is for informational purposes only. All data provided herein is based on in-depth research and testing, however no liability whatsoever can be assumed. Since we are constantly endeavouring to up-date and improve our products, we recommend noting the index and issue date indicated on this data sheet and to inquire as to whether any properties have changed in the interim. This Product Information Sheet replaces all prior issues. Please contact our Technical Consultant for detailed information in case of ambiguities.

TIP TOP Oberflächenschutz Elbe GmbH, Heuweg 4, D-06886 Wittenberg
Phone: (0 34 91) 6 35 – 50, Fax: (0 34 91) 6 35 – 5 52