

## 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.

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### **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
<b>CHEMOLINE 8 CN</b> 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	$\geq 6$ <sup>1)</sup>
Elongation at break	[%] S2 Bar	DIN 53504	$\geq 300$ <sup>1)</sup>
Hardness	[Shore A]	DIN 53 505	$65 \pm 5$ <sup>2)</sup>
Rebound resilience	[%]	DIN 53 512	$\geq 20$
Density	[g / cm <sup>3</sup> ]	DIN EN ISO 1183-1	$1.25 \pm 0.02$
Bonding strength to steel	[N/mm]	DIN ISO 813	$\geq 4$
Test voltage	[KV/mm]	DIN 28 055	5
Temperature of use	[° C]		$\leq 80$
Surface Pressure	[MPa]		<u>2</u>

<sup>1)</sup> Press vulcanisation

<sup>2)</sup> 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.]	Product-No.
10.000	1.100	3	11	804 <del>5</del> 28
10.000	1.100	4	11	805 <del>5</del> 28
10.000	1.100	5	11	806 <del>5</del> 28
10.000	1.100	6	11	807 <del>5</del> 28

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