

PRODUCT INFORMATION

CHEMOLINE 11 (CSM/PVC)

General properties

CHEMOLINE 11 is a grey, vulcanised soft rubber material on the basis of chlorosulfonated polyethylene and polyvinyl chloride (CSM/PVC),

Above mentioned 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 (intermolecular 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 final vulcanisation grade will be reached under service conditions.

The **CHEMOLINE 11** lining material enables surface protection of structural steel and concrete parts of any size.

The essential properties of soft rubber material **CHEMOLINE 11** are its strong resistance to mineral acids, bases, aqueous phases and especially its excellent resistance to oxidizing media like sodium hypochlorite.

Above mentioned lining material can be used within temperatures of – 20 °C up to + 80 °C, other conditions should be confirmed by REMA TIP TOP.

Fields of application

Due to its resistance to numerous chemicals the lining material **CHEMOLINE 11** is worldwide used in the chemical, chlorine and steel industry and especially in the chlorine industrie. Here, structural steel parts subject to high chemical, mechanical and thermal stress, such as storage bins, filter cells, mixing tanks can be protected from corrosion by using the **CHEMOLINE 11** lining material.

Shelf life

CHEMOLINE 11 lining material can be stored without any loss of quality for a period of up to 6 month at a max. temperature of + 25 °C. The DIN standard 7716 has to be observed.

Application on steel

The lining material **CHEMOLINE 11** 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 DIN standards 28 051, 28 053, 28 055 and DIN EN ISO 12 944-4 have to be observed before, during and after application.

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Induction test of the lining

The porosity test is carried out according to the German standard DIN 28 055 with a spark tester (high voltage test). For induction test the Elmed-Isotester II RT or alternatively the Uniontester has to be used.

The test voltage has to be set as follows:

Lining material	Test voltage
CHEMOLINE 11 vulcanized	5 KV/mm (max. 20 KV)

Mechanical - Physical Characteristics

Properties	Units	Standard	Value
Polymer		DIN ISO 1629	CSM/PVC
Tensile strength determined on:	[MPa] Stab S2	DIN 53 504	≥ 6 ¹⁾
Elongation at break determined on:	[%] Stab S2	DIN 53 504	≥ 400 ¹⁾
Hardness	[Shore A]	DIN 53 505	55 ± 5
Rebound resilience	[%]	DIN 53 512	≥ 10
Density	[g/cm ³]	DIN 53 479	1.18 ± 0,02
Bonding strength on steel	[N/mm]	DIN 53 531	≥ 3
Test voltage	[KV/mm]	DIN 28 055	5
Max. permanent operating temperature	[° C]		≤ 80

1) Press Vulcanisation

The information given above is based on approved test results and represents statistical product data, which does not however necessarily guarantee the specific properties of the product.

We reserve the right to changes to technical specifications without prior notice, provided they ensure technical improvement without major modifications of the product itself.

Basic Program **CHEMOLINE 11**

Availability and dimensions

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

Length [mm]	Width [mm]	Thickness [mm]	Quantity [m.]	Product-No.
10.000	1.100	3	11	528 9857
10.000	1.100	4	11	528 9864
10.000	1.100	5	11	528 9871
10.000	1.100	6	11	528 9888

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.

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