

PRODUCT INFORMATION

CHEMOLINE 61 CN (IIR/PVC)

General properties

CHEMOLINE 61 CN is a soft rubber material on the basis of butyl rubber and PVC (IIR/PVC), equipped with a 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.

With the lining material **CHEMOLINE 61 CN** the surface protection of steel and concrete constructions of large dimensions is possible.

The essential properties of the **CHEMOLINE 61 CN** lining material are its strong resistance to mineral acids, bases, aqueous phases and especially its excellent resistance to oxidising and mixed acids, hydrofluoric / nitric pickling solutions or Chromic solutions.

The above mentioned lining material can be used from – 30 °C to + 80 °C.

Fields of application

Due to its chemical resistance to oxidising acids the lining material **CHEMOLINE 61 CN** is worldwide used in the chemical, steel industry and particularly in the galvanic industries. Here, structural steel parts subject to high chemical, mechanical and thermal stress, such as stainless steel pickling lines and galvanic baths can be protected from corrosion by using the **CHEMOLINE 61 CN** lining material.

Shelf life

CHEMOLINE 61 CN lining material can be stored without any loss of quality for a period of up to 24 month at a maximum temperature of + 25 °C.

The DIN 7716 standard has to be observed.

Application on steel

CHEMOLINE 61 CN is bonded onto steel by using the CFC-free **METAL PRIMER PR 304** in combination with **CEMENT BC 3004**. Alternatively the adhesive system **METAL PRIMER PR 300 / CEMENT BC 3000** can be used.

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

Spark test

The spark test (Holiday Test) is carried out according to the EN 14879-4. An earthed high-voltage spark tester Elmed-Isotest II RT or alternatively the Wegener AC Spark Tester WEG 20/22 must be used.

The test voltage has to be set as follows:

| Lining Material | Test voltage |
|------------------------|----------------------|
| CHEMOLINE 61 CN | 4 KV/mm (max. 20 KV) |

Mechanical - Physical Characteristics

| Properties | Units | Standard | Value |
|-----------------------------------|------------------------|--------------------------|----------------------|
| Polymer | | ISO 1629 | IIR/PVC |
| Tensile strength determined on | [MPa] S2 Bar | DIN 53504 ASTM D 638 | ≥ 4 ¹⁾ |
| Elongation at break determined on | [%] S2 Bar | DIN 53504 ASTM D 638 | ≥ 500 ¹⁾ |
| Hardness | [Shore A] | DIN 53505 ASTM D 2240 | 62 + 5 ²⁾ |
| Density | [g / cm ³] | EN ISO 1183-1 | 1.18 + 0.02 |
| Bonding strength to steel | [N/mm] | ISO 813 | ≥ 3 |
| Test voltage | [KV/mm] | EN 14879-4 | 4 |

¹⁾ Press vulcanisation

²⁾ Vulcanisation into the autoclave

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 61 CN**

Availability and dimensions

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

| Length [mm] | Width [mm] | Thickness [mm] | Quantity [m ²] | Product-No. |
|-------------|------------|----------------|----------------------------|-------------|
| 10.000 | 1.100 | 2 | 11 | 528 2200 |
| 10.000 | 1.100 | 3 | 11 | 528 2210 |
| 10.000 | 1.100 | 4 | 11 | 528 2220 |
| 10.000 | 1.100 | 5 | 11 | 528 2230 |
| 10.000 | 1.100 | 6 | 11 | 528 2240 |

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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