

PRODUCT DESCRIPTION

Chester Elastomer 90F is a two-element liquid chemo-hardening rubber.

TYPICAL APPLICATION

Reconstruction of rubber flights and rolls in belt conveyors.

Production of non-typical seals and shapes.

Reconstruction of gummed pump barrels and rotors.

PROPERTIES OF NOT CURED MATERIAL (AFTER MIXING)

Consistence liquid

Density [g/cm³] 1,25
(at 25 °C)

Color grey

Mixing proportions: (Base: Reactor)
Volume: whole pack

CURING PROCESS

Maximal utility time after mixing 15 min
(in 20 °C)

Time for the initial curing 5 hours
(in 20 °C)

Full chemical resistance after 7 days
(in 20 °C)

PHYSICAL PROPERTIES OF THE CURED MATERIAL

Maximal working temperature (dry) [°C] 120

Maximal working temperature(wet) [°C] 80

Minimal working temperature[°C] -50

Hardness [°ShA] 90

(DIN 53505)

Dielectric strength [kV/mm] 19

(IEC 243-1)

Ultimate elongation [%] 300

(ASTM 412-61T)

Stretching strength [Mpa] 35

(ISO R1798)

Shear strength (for steel)[Mpa] 4,5

(ISO 4587)

CHEMICAL RESISTANCE

Solvent	Chemical resistance
Saturated solution NaCl 80 °C	+
Hydrochloric acid 10%	+
Phosphoric acid 10%	+

Nitrous acid 10%	+
Acetic acid 10%	+
Fluosilicic acid	+
Formic acid 10%	+
Sulfuric acid 10%	+
Salicylic acid	+
Sea water	+
Hydrocarbons	-
Chlorine	-
Oxygen	-

+ it can be applied without reservations

- not recommended

Unless it has been specified otherwise, the tests were conducted at the temperature of 20°C.

The tests were conducted after 168h of hardening at the temperature of 20 °C.

The complete table of the chemical resistance can be found on our website.

OTHER INFORMATION
Storage

The product should be stored in original packagings. The product's durability is 12 months.

Way of use

Preparation of the surface.

The surface in the part to be repaired shall be mechanically cleaned by means of blast cleaning, sanding, or with the help of the abrasive paper, grinders, pin-lift grinding wheels, etc. You should always aim at thoroughly remove the impurities and make the surface porous. A correctly prepared surface shall be greased with the help of, e.g., Chester Fast Cleaner.

Mixing and application of the elastomer.

Use two different spatulas to take the Base and the Reactor. Mix both elements at least 2 minutes.

The layers should be as finner as possible to eliminate blowhole. It is the best to place the necessary layer at once, carefully rubbing it into the base. In the case of repairs of cracks, it is recommended to additionally strengthen the composite with a fiberglass net.