

Chemical Mortar Cartridge styrene free

Approved for the anchoring in non-cracked concrete in connection with Kalm threaded rods, galvanized, stainless steel A4 and highly corrosion resistant 1.4529.

● **Areas of application**

Stairway steps, monuments, Structural steelworks, wells, window lattices, machine railings, fronts... in dry, moistening and aggressive damp environments, like chlorine, sea water or tunnels.

● **Characteristics**

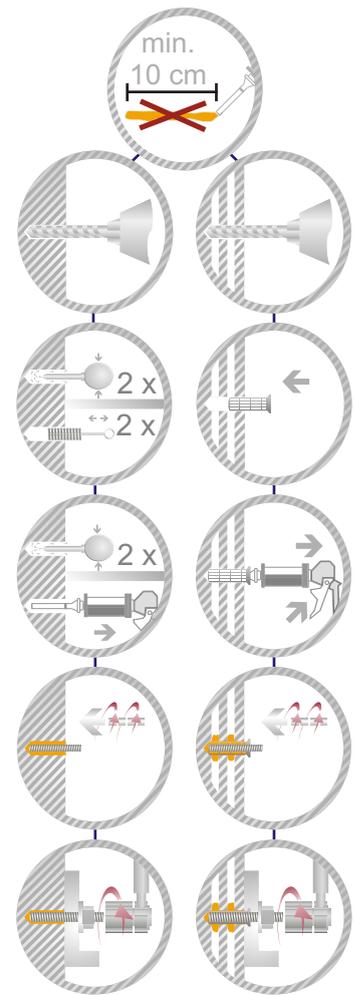
Chemical mortars are characterised by simple handling and ensure a straddling pressure free attachment with at the same time high load-carrying capacity. The application types of the mortars are versatile, thus are for the industrial and private use a multiplicity of application possibilities. The co-ordinated two-component mortar system VMK-SF allows an exact and simple dosage for the mortar mass.

● **Impact**

The components, consisting of a resin and hardener mixture, are in two separately arranged chambers. By using an injection gun both components are mixed together in the nozzle and become a highly stressable mortar mass with high mechanical values.

● **Operating instructions:**

- Drill the hole: Use a percussion drill.
- Cleaning of the drill-hole:
twice in each case with the brush DBK
with the Blowpump ABK and again with the brush
DBK. *(with hollow blocks introduce the sleeve SHK).
- Insert the mortar cartridge into the injection gun APK.
Reject the first 10 cm strand or the first two strokes.
- Fill in the mortar starting from the drill-hole|s
deepest point (sleeve|s deepest).
- Rotate the fixing element ASK, ASK-E or ASK-H
into the hole.
- Let the mortar harden (see reaction times below).
- Fasten the element and tighten the nut
(see technical data)



● **Reaction times:**

Anchor base temperature [°C]	40	30	20	5	0	-5
Gelling time [min]	2	3	4	12	25	45
Curing time [min]	15	25	45	90	180	360

In case of a wet base material the curing time has to be doubled

● **Technical Data:**

**VMK guidelines for concrete $f_c=20 \text{ N/mm}^2$,
anchor stud quality 5.8**

	M8*	M10	M12	M16	M20*
Drill depth (anchoring depth, setting depth) h_v [mm]	80	90	110	125	170
Nominal drill-hole diameter [mm]	10	12	14	18	24
Design value for pulling direction Temperature Range II: 60/43°C, Dry and Wet Concrete (including partial safety factor)	8,4	11,3	13,8	16,8	24,4