5.1 Horizontal Barrier

Horizontal barrier under walls in new buildings and surface sealing

Sealing cove: WFP Multi Mortar

Horizontal barrier: WFP Crystal Slurry + WFP Bondflex KZ / WFP Flex alternative WFP Flex Slurry 2C

1. Layer: WFP Crystal Slurry + Bondflex KZ
2. Layer: WFP Crystal Slurry + Bondflex KZ

Alternative In case of cracks in surface:
1. Layer: WFP Crystal Slurry + WFP Flex or alternative WFP Flex Slurry 2C

Sealing protection with screed
Application

Preparation of the surface
The surface must be dry to slightly moist, stable, and clean. Loose components, soil, release agents, formwork oil, grease and other adhesive reducing layers should be removed before the application. Damaged concrete, plaster, cracks and cavities should be renovated with WFP Multi Mortar first. Burrs and sharp edges have to be removed first. A primer is generally recommended. As a primer WFP Special Deep Primer (new buildings) is recommended. A sealing cove with WFP Multi Mortar is recommended (4 x 4 cm)

Horizontal Barrier
- **WFP Crystal Slurry** (crystalline system) must be mixed with using of a slow speed mixer with clean water (approx. 5 ltr per 15 kg)
- Our recommendation is to use a liquid out of water + 20% WFP Bondflex KZ. The advantage is that this mixing formulation raises the ability of the material to retain water and prevents a too fast drying of the coating.
- **Alternative WFP Flex Slurry 2C** (highly flexible) instead of WFP Crystal Slurry. WFP Flex Slurry 2C (component A + B) should be mixed in the predetermined mixing ratio in a clean mixing pail by using a low speed mixer. Mix the powder with 3/4 of the required liquid component until a lump-free compound is attained. After solubilize add the rest ¼ of liquid.
- After mixing wait 1 minute and mix again.
- The application on the surface must be done with a hard brush or spraying equipment.
- The coating in principle done by minimum 2 layers, whereby the minimum thickness has to be observed.
- The first layer must not be completely cured before the second layer is applied or the surface has to be pre-wetted.

The whole system has to be secured against too fast drying (wind, sun etc.), frost and rain.
Surface sealing

Preparation of the surface
The surface must be dry to slightly moist, stable, and clean. Loose components, soil, release agents, formwork oil, grease and other adhesive reducing layers should be removed before the application. Damaged concrete, plaster, cracks and cavities should be renovated with WFP Multi Mortar first. Burrs and sharp edges have to be removed first. A primer is generally recommended. As a primer WFP Special Deep Primer (new buildings) is recommended. A sealing cove with WFP Multi Mortar is recommended (4 x 4 cm)

- **WFP Crystal Slurry** (crystalline system) must be mixed with using of a slow speed mixer with clean water (approx. 5 ltr per 15 kg). In case of high salt content in substrate WFP Sealing Slurry –sulphate resistant- can be used.

- Our recommendation is to use a liquid out of water + 20% WFP Bondflex KZ. The advantage is that this mixing formulation raises the ability of the material to retain water and prevents a too fast drying of the coating.

- **Alternative WFP Flex Slurry 2C** (highly flexible) instead of WFP Crystal Slurry. WFP Flex Slurry 2C (component A + B) should be mixed in the predetermined mixing ratio in a clean mixing pail by using a low speed mixer. Mix the powder with 3/4 of the required liquid component until a lump-free compound is attained. After solubilize add the rest ¼ of liquid.

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- The application on the surface must be done with a hard brush or spraying equipment.

- The coating in principle done by minimum 2 layers, whereby the minimum thickness has to be observed.

- The first layer must not be completely cured before the second layer is applied or the surface has to be pre-wetted.

The whole system has to be secured against too fast drying (wind, sun etc.), frost and rain.

Remark
The information complies with the current state of development. There is no claim for completeness. A professional and therefore successful processing of the products is not within our responsibility. We accept a warranty only for the quality of the products, but not for processing. It is the responsibility of the user to evaluate the suitability of our products for its purpose. Preliminary tests are recommended.