



## CONSOL HYBRID EPOXY V

### Moisture Vapour Barrier Sealing Mortar

#### DESCRIPTION

**CONSOL HYBRID EPOXY V** is three components damp-proofing sealing mortar formulated from special cement and chemical additive for:

- As sealing mortar (0.5 – 2.0 mm) on concrete, mortar, stone
- For levelling uneven surfaces, filling honeycombs and pin holes
- As pore sealer on horizontal and vertical surfaces
- As temporary moisture barrier

#### FIELD OF APPLICATION

**CONSOL HYBRID EPOXY V** provides the following beneficial properties such as:

- Temporary moisture barrier for resin based coatings
- Easy application, by brush or trowel or roller
- Permeable to water vapour
- Excellent adhesion to damp and green concrete
- Excellent early and final mechanical strengths
- Excellent resistance to water and oil

#### COVERAGE

Material consumption approx. 1.9 kg/m<sup>2</sup> for 1 mm layer depends on substrate conditions.

#### PRODUCT DATA

##### Form

Liquid and Powder

##### Colour

Resin-Part A : Milky White, liquid  
Hardener- Part B : Green to Brown, liquid  
Part C : Cementitious Grey

##### Density (20°C)

Part A ~ 1.05 kg/l  
Part B ~ 1.05 kg/l  
Part C ~ 1.45 kg/l  
Mixed A+B+C ~ 1.9 kg/l

##### Packaging

Part A = 2.1 kg  
Part B = 3.3 kg  
Part C = 20 kg

#### Storage & Shelf Life

12 months when unopened, original containers when stored in cool dry condition below 30°C

#### TECHNICAL DATA

##### Chemical Base

Epoxy-Cement modified

##### Comp. Strength

± 35 N/mm<sup>2</sup> at 7 days

##### Flexural Strength

± 10 N/mm<sup>2</sup> at 28 days

##### Bond Strength

1,5 N/mm<sup>2</sup> (failure on concrete)

##### Shore D Hardness

80 (7 days)

##### Pot Life (30° C)

Approx. 20 minutes at 30°C

#### INSTRUCTION FOR USE

##### Substrate Condition

Surfaces must be structurally sound, clean, and free from loose particles, oil, grease, and all other contaminants. The compressive strength of the substrates shall not be less than 20 N/mm<sup>2</sup> and the bond strength of the substrate must be at least 1.5 N/mm<sup>2</sup>. The substrate temperature shall not be less than 10°C min. / 30°C max. Substrates must be dry or saturated surface-dry (no standing water).

##### Surface Preparation

Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membrane and other contaminants must be removed from the surface by shot blasting, scarifying or grit-blasting followed by vacuum cleaning.



### Application System

Application on Green Concrete/Fresh and Damp Concrete  
Apply primer : Consol Primer Hybrid Epoxy  
approx. 0.1 – 0.15 kg/m<sup>2</sup>  
Sealing Mortar : **CONSOL HYBRID EPOXY V**  
(A+B+C) approx. 1.9 kg/m<sup>2</sup> for  
±1 mm layer thickness.

### Mixing

Shake part A and B vigorously for at least 30 seconds.  
Pour the binder mixture (A+B) into a suitable pail (approx.  
25 litre capacity) and add part C, whilst mixing with a slow  
electric mixer (approx. 300-400 rpm). Mix thoroughly for  
about 3 minutes.

### Waiting Time/Overcoating

**CONSOL HYBRID EPOXY V** can be overcoated with  
epoxy based materials as soon as surface moisture  
content of **CONSOL HYBRID EPOXY V** is less than 4%,  
however not earlier than 24 hours.

Freshly applied **CONSOL HYBRID EPOXY V** must be  
protected from rain for 24 hours.

### PRECAUTIONS

- **CONSOL HYBRID EPOXY V** contain certain chemicals which can cause skin irritation, if exposed and respiratory reaction if inhaled
- Keep away from open light, including welding
- Avoid contact with skin and eyes
- If skin contact occurs, wash skin thoroughly
- Wear protective glove and eye protection during work
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.