



# HYFIX FLEXIL

TWO COMPONENT, FIBER REINFORCED, CEMENT BASED CHEMICAL AND PHYSICAL WATERPROOFING

- Effective for the service life of concrete
- Bonds with the concrete chemically and acts as a physical membrane
- No protection layer required

## DESCRIPTION

**HYFIX FLEXIL** is a cement based, two component, fiber reinforced waterproofing material that provides both chemical and physical water impermeability; suitable to use on horizontal, damaged or cracked concrete surfaces.

## TYPICAL APPLICATIONS

- Damaged or cracked horizontal concrete surfaces
- Terraces
- Below grade horizontal concrete surfaces
- Above concrete water tanks

## ADVANTAGES

- Provides both chemical and physical water impermeability.
- Repairs shrinkage cracks and eroded concrete surfaces.
- Protects the concrete and reinforcing bars against corrosion.
- Improves abrasion resistance.
- Does not require a protection layer.
- Becomes an integral part of the concrete and maintains water impermeability for the service life of concrete.
- Resistant against aggressive chemicals.
- Non-toxic.
- Excellent resistance against hydrostatic pressure.

## PROPERTIES

**Density:** 1,98 ±0.05 kg/l

**Pot Life:** 40 minutes

**Application Temperature :** (+5)°C to (+50)°C

## DIRECTIONS FOR USE

### SURFACE PREPARATION

- Application surface should be clean and free from dirt, oil, paint, loose particles, mortar and plaster residues
- Repair all defects on the concrete surface thoroughly until a sound substrate is obtained
- Cracks and surface irregularities wider than 1mm should be cavitated properly and should be repaired with **HYFIX EXPAN**
- Saturate the surface with water, but any standing water should be removed

### MIXING

- Pour 7 kg liquid component of **HYFIX FLEXIL** into a clean container, then add 23 kg of powder component, and mix using a low speed mixer for 3 to 5 minutes until a lump free homogenous mixture is achieved

### APPLICATION

- Use **HYFIX EXPAN** for fillets and riglets. Fillet applications should be detailed as per site conditions
- Saturate the surface with water, but remove any standing water
- Apply the mixture with brush, coating the surface evenly. In case a thicker layer is desired, pour the material onto the application surface and float to level

### CURING

- Cure the application with **HYFIX CURE** the day after. This curing process is very important in order to ensure necessary chemical reactions before physical water impermeability properties are achieved
- **HYFIX CURE** is formulated to enhance the abrasion resistance

### WATCHPOINTS

- **HYFIX FLEXIL** should not be applied onto expansion, contraction or construction joints.
- The mixture should be used within 40 minutes and mixed regularly to maintain application consistency.
- Do not add extra powder or water into the mixture.
- Make sure that the surface is moistened thoroughly with clean water for applications performed under direct sunlight or wind.
- Protect from weather conditions such as sunlight, wind, snow, rain, frost, and etc. during the first 24 hours.
- Do not apply below (+5)°C.
- Available for pedestrian traffic within 3 days.
- Full waterproofing properties are reached after 7 days.

### CONSUMPTION

2 kg/m<sup>2</sup>

### PACKAGING

Powder: 23 kg craft bag

Liquid: 7 kg plastic container

### STORAGE AND SHELF LIFE

Store in dry and cool locations. Shelf life is 12 months under suitable storage conditions. Avoid from direct sunlight and frost. Avoid from storing at temperatures below +4°C.

### HEALTH AND SAFETY

As with all chemical products care should be taken during use and storage. Avoid contact with food, skin, clothes, eyes and mouth. If accidentally ingested seek immediate medical attention. In case of contact with skin or eyes, wash with a plenty of water and soap. Should be kept away from children. Reseal containers after use. Please consult Material Safety Data Sheet (MSDS) for further information.

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