

# Contite® Flex

## FLEXIBLE POLYMER MODIFIED CEMENTITIOUS WATERPROOFING SLURRY

### DESCRIPTION

**Contite Flex** is a two part polymer modified flexible waterproofing slurry consisting of a liquid polymer as Part A and a premixed powder as Part B. On mixing the two parts together a brush or sprayable smooth slurry is created which produces a fully bonded waterproof membrane to most substrates.

**Contite Flex** is complies to EN 1504 Part 9 and EN 1504 Part 2

### USES & ADVANTAGES

**Contite Flex** may be used for many waterproofing applications including applying to concrete, masonry, brick, renders, gypsum board and cementitious overlays, under tiles or stand alone. Typical applications include waterproofing of water tanks, reservoirs, sumps, swimming pools, bathrooms, basements, retaining walls, concrete gutter, balconies, kitchens, sewerage processing tanks, lift pits.

#### Advantages Include:-

- Flexible with good elongation.
- Minor crack bridging (upto 2 mm) when applied at correct coverage rates.
- Suitable for use in exposed conditions.
- Non toxic. Suitable for use with potable water.
- High resistance to chloride diffusion.
- Fully bonded. No priming required in most cases.
- Breathable, not a vapour barrier.
- Can apply to damp surfaces.
- Can apply to negative or positive side.
- Stands up to pedestrian & light traffic.
- Excellent root resistance.
- Withstands > 100 m. head of water at recommended coverage rates.
- Barrier to Carbon Dioxide.
- Resistant to aggressive salt bearing waters.

### PROPERTIES

<b>Appearance:</b>	Grey (when mixed)
<b>Mixing Ratio:</b>	A : B = 1 : 2.3
<b>Density:</b>	A + B (mixed) Approx. 1.6 kg/l
<b>Coverage:</b>	Approx. 1.6 kg/m <sup>2</sup> /mm.
<b>Pot life:</b>	30 minutes at 30°C. Pot life will be shortened at higher temperatures.
<b>Elongation:</b>	> 100%
<b>Adhesion to Substrate:</b>	> 0.7 N/mm <sup>2</sup>
<b>Tensile Strength:</b>	> 0.7 N/mm <sup>2</sup>
<b>Shore A Hardness:</b>	> 50
<b>Application Temperature:</b>	> 5°C
<b>Contact with Potable Water:</b>	Suitable
<b>Resistance to Water Penetration:</b>	No water penetration DIN 1048 pt 5:1991
<b>ISAT :</b>	< 0.05 ml/m <sup>2</sup> .s
<b>Rapid Chloride Diffusion:</b>	< 300 coulombs

### SURFACE PREPARATION

The substrate should be clean and sound, free of dust loose particles, grease, oil, curing compounds, mould oils, primers from previous membrane systems or bitumen.

Bitumen or primers should be removed by shotblasting or mechanical means, alternatively seal with a Cormix Sealer. Bond tests should be undertaken if the surface is already saturated with bitumen or bitumen primers. Spalled concrete should be repaired by cutting out to sound concrete and patching with **Conpatch 600** (consult Cormix International Technical Department). Best surface preparation is achieved by high pressure water blasting.

### MIXING

**Contite Flex** is supplied in premeasured units. Slowly add the powder to the liquid and mix to a lump free smooth consistency. Do not add water or rework a stiffened mix by adding water. Mix sufficient material to use within 30-40 minutes.

### APPLICATION

Saturate the concrete's surface with clean water. Apply the first coat while the surface is still damp but no free standing water. Apply using a short stiff bristle brush, trowel or spray at a minimum of 0.5-1.0 mm per coat. Leave to dry for 2-6 hours. The second coat is applied to the "green" first coat. The second coat can be rubbed down with a soft dry sponge. Spray or trowel application is acceptable providing the mixing ratio is adjusted to achieve the right consistency. When applying by spray hold the gun approximately 50 cm. from the surface. Once the first coat is applied by spray, brush or trowel then wet surface to remove any trapped air.

Spray application will produce a very smooth surface if other products will be applied over the top roughen the surface by brushing while it is still wet.

The cure time of **Contite Flex** is affected by both temperature and humidity. Humidity has an influence on waiting times between coats and resistance to rain. Ensure that the freshly applied **Contite Flex** is protected from rain for the first day, and the drying effect of the sun and wind during the first 5 days of cure.

On hot surfaces e.g. above 40°C surface temperature a primer coat of mixed **Contite Flex** and water with a slurry consistency should be applied. Consideration to saturating the surface in advance and protection from adverse wind & sun conditions must be given in exposed areas. The **Contite Flex** must be applied over the primer coat before it dries. For light foot traffic areas the coating should be at least 2 mm thick. For advise contact Cormix Technical Service Department.

**Note :** Mix only complete packs.

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### APPLICATION RATES

In most waterproofing applications, **Contite Flex** is applied in 2 coats by brush, trowel or spray. The minimum application rates are as follows;

**Ground water ingress** - 2 coats by brush, trowel or spray at 1.6 kg/m<sup>2</sup>/coat. (Minimum layer thickness for 2 coats 2.0 mm.)

**Pressure less ingress** - 2 coats by brush, trowel or spray at 1.6 kg/m<sup>2</sup>/coat. (Total minimum layer thickness for 2 coats 2.0 mm.)

**Water under pressure** - 2 coats by brush, trowel or spray at 2.0 kg/m<sup>2</sup>/coat. (Total minimum layer thickness for 2 coats 2.5 mm.)

**Bathroom waterproofing** - 2 coats by brush at 1.6 kg/m<sup>2</sup>/coat. (Minimum layer thickness for 2 coats 2.0 mm.)

**Swimming pools** - 2 coats by brush or spray application at 1.6 kg/m<sup>2</sup>/coat. (Minimum 2 mm. thickness)

### CURING & PROTECTION

Surfaces waterproofed with **Contite Flex** must be protected from rain, ponded water and the drying action of direct sunlight for a minimum period of 5 days after application.

Protect all treated surfaces from wind, frost, rain and water seepage by covering with plastic sheeting, tarpaulin or equivalent.

### CLEANING

Tools and equipment should be cleaned with water immediately after use.

### LIMITATIONS

**Contite Flex** is suitable for use in open headed sewerage processing tanks. Consult Cormix International Ltd. for specific advise on the use of products to use in closed sewerage environments where sulphuric acid concentrations may be high. In negative side applications, do not apply **Contite Flex** to substrates that are weeping.

Use Contite waterplug to stop all water seepage before applying **Contite Flex**.

### PACKAGING

33 kgs set; Part A liquid 10 kgs and Part B powder 23 kgs.

### STORAGE & SHELF LIFE

In excess of 9 months if unopened, stored free from frost, moisture and direct sunlight.

### HEALTH & SAFETY

**Contite Flex** is non-toxic but is alkaline in its nature.

When applying gloves & goggles should be worn. Wash off splashes to skin with water. If in eyes wash out with plenty of clean water and seek medical attention. **Contite Flex** is non-flammable.

### TECHNICAL SERVICE

The Cormix International Limited Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE

ISO 9001: 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

### DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.

Cormix does not take responsibility nor need to defend others testing that does not achieve the published data.

The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

### CONTACT DETAILS

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