

## COSMO DUOFLEX AQUA

### Water based, Bitumen extended Polyurethane liquid membrane for waterproofing

#### DESCRIPTION

**COSMO DUOFLEX AQUA** is a two- component , bitumen extended , water based , coating with exceptional thixotropic properties ideal for the waterproofing of foundation walls and wet rooms. The material unlike most bitumen emulsion based material, is quick drying and can be applied in thick coats. Furthermore , the material has the characteristics of a true elastomer and does not resemble the thermoplastic materials of the same genre.

Apply with brush , roller or airless spraying in one or two coats with minimum total consumption of 2-3 kg/m<sup>2</sup> reinforced with geotextile fabric available from ETS Europe.

#### RECOMMENDED FOR

Waterproofing and protection of :

- Foundation walls ,
- Wet rooms

#### LIMITATIONS

Not recommended for :

- Unsound substrates ,

#### FEATURES&BENEFITS

- Water based
- Easy to apply & repair.
- Thixotropic
- Seamless.
- Elastic.
- Quick curing

#### APPLICATION PREREQUISITES

##### Can be successfully applied on:

Concrete , fibrous cement , cement roof tiles , wood , corroded metal , galvanized steel. For information about other substrates , please contact our tech department.

**Standard concrete substrate conditions** Hardness: R<sub>28</sub> = 15 Mpa.

- Humidity: W < 10%.
- Temperature: 5-35 °C.
- Relative humidity: < 85%.

Suitable primers:

**AQUA PRIMER** , **COSMO SEALER** , **COSMO PU** depending on the substrate. Please contact our technical department for primer selection advice.

#### APPLICATION PROCEDURE

Clean the substrate using a high pressure washer , if possible. Remove oil, grease and wax contaminants. Cement laitance , loose particles , mould release agents, cured membranes must also be removed. Surface irregularities should also be filled.

**Priming:** Apply recommended primer according to Technical Data Sheet specifications.

**Mixing:** Mix component A and B thoroughly before application. The pot life of the mixed product is high , giving a working time of over 30 minutes. Although thinning is not necessary, the material can be further thinned by 5-10% water. In the case of airless spraying, dilution with water is highly recommended.

**Application:** Apply with roller , brush or airless spraying in two coats. Do not apply under conditions of wet weather or expected wet weather.

#### CONSUMPTION

Minimum total consumption: **2-3 kg/m<sup>2</sup>**.

#### CLEANING

Clean tools and equipment with water.

#### SHELF LIFE

Can be kept for 6 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

## COSMO DUOFLEX AQUA

### TECHNICAL SPECIFICATIONS

#### In liquid form (before application):

50% solids in water

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	2,000-7,000
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1
Required application temperature	°C	-	> 5

#### In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	50
Tensile strength at break @ 23 °C	Kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN-ISO-527-3	45-50 (4-5.0)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 200
H <sub>2</sub> O absorption	%	-	< 4

### Safety Informations

The MSDS (Material Safety Data Sheet) is available on request.

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