



مصنع أنقى  
Anqa Factory

## ANQA-FLEX (A+B)

### The Ultimate Two-Component Waterproofing Solution

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#### DESCRIPTION:

ANQA-Flex is a two-component, elastic, acrylic-modified cementitious coating (cement and acrylic liquid) to protect concrete structures from water, steam, ingress of chloride ions and attacks of acid and alkali gases. It is a strong flexible coating with excellent water-resistant properties. It is a mixture of cement, selected fillers, polymers and special graded additives. The liquid contains binders and modified acrylic additives.

#### ADVANTAGES:

- Good flexibility and thermal expansion efficiency similar to that of concrete.
- Good adhesion to porous and non-porous surfaces.
- Good mechanical properties.
- Excellent durability against harsh weather conditions.
- Non-toxic, so suitable for use in drinking water applications.
- Resistant to the diffusion of carbon dioxide ions and chlorides

#### APPLICATION AREAS:

It is used as a waterproofing and protective coating for the following structures:

- Internal lining of drinking water tanks and other water retention facilities
- Protect exposed concrete structures such as bridge decks from carbonation and chloride attack.
- Inverted roofs, lifting and inspection pits, swimming pools and sewers.
- Marble and granite backing to prevent moisture penetration.

#### APPLICATION METHODS:

Application temperature should be between 5 and 45°C. Application procedures may vary slightly depending on site conditions. General recommended guidelines for applying a coating system are as follows:

**Surface preparation:** The surface must be structurally sound and free of oil, grease, dust and other contaminants that will affect bonding. Any structural cracks and potholes must be repaired with suitable repair mortar from ANQA Surface Treatment products range. The surface to be treated must be pre-saturated with water before application. However, any standing water must be removed before application.

**Mixing procedure:** Mix the two compounds to a pre-determined measurement which only requires on-site mixing. Do not mix more materials than can be used in the pot. Two-component mixing can be done by mixing 4 parts of powder with 1 part of liquid (by weight). Pour the liquid into a suitable container and slowly add the powder to the liquid. Mix the contents using a slow speed mixer until a homogeneous, lump-free and creamy consistency is achieved. **Do not add water to dilute the substance.**

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**Application:** It is recommended to apply two layers of not less than 2 mm to the targeted areas and thickly to the joints and areas where water collects. Each layer is applied giving a dry film thickness of 1 mm, and the paint can be applied with a stiff brush or an airless sprayer with a nozzle size of 3-4 mm and a pressure of 6-7 bar. After applying the first coat, while the paint is still wet, include fiberglass mesh in all corners and dividers for added reinforcement. The second coat is applied after the first coat has completely dried (6-8 hours @ 25°C, 50% RH). For general waterproofing and protection from carbonation and alkaline attacks, the paint can be applied with a thickness of 1 mm.

**Base layer:** The product can be diluted with an appropriate amount of clean water (2 - 3 liters per 20 kg of product) and applied to the surfaces to be insulated as an adhesive, bonding and easy-to-penetrate base layer before applying Final layers: The base layer must be left for a sufficient period of time before starting to implement the following layers.

**Final layer:** Apply the appropriate amount of paint after the base layer dries. Several layers can be applied as needed. The coating must be adequately protected in the following cases:

- Areas exposed to mechanical abrasion.
- Areas of abundant flowing water.

**Cleaning:** Clean all tools with water immediately after use. Dried materials can only be removed mechanically.

### COVERAGE:

1.8 kg per square meter per layer to implement a dry film with a thickness of 1 mm

### HEALTH & SAFETY:

**Skin and eye contact:** Avoid getting the product into eyes and skin. The product is non-toxic and can be removed with plenty of water. You should consult a doctor in abnormal cases. Please refer to the Safety and Prevention leaflet for more information.

**Flammability:** The product is non-flammable and is completely non-toxic when dry.

### SHELF LIFE:

12 months for unused, unopened product. It is recommended to use products in priority according to production dates

### PACKAGING:

The product is supplied in the form of two components: 15 kg cement compound (bag or bucket) + 5-liter liquid jerrycan.

FEATURES	VALUE	STD
Color	Grey/White	
Density Mixture	18±0.02	ASTM - D 1475
Working Time	45	ASTM - D 1475
Compression Strength [N/mm²]	8>	ASTM - D 1412
Elongation [%]	5>	ASTM - D 1412
Adhesion [N/mm²]	0.5>	ASTM - D 4541
Refraction [mm]	0.5>	ASTM - C 836
Hydro. Pressure @ 3 bar (50min)	No Leakage	BS EN 12390 (Part 8)
Negative Hyd. Pressure @ 3 bar (30min)	No Leakage	BS EN 12390 (Part 8)
Toxicity	Non Toxic	BS 6920
Abrasion Resistance [mg]	75<	ASTM D 4060
VOC, [mg]	50<	ASTM D 3960/ D 2369
Drying Time [hrs]	6-8	-
Hardness Time [days]	7	-
Application Temp. [°C]	5 - 45	-
Working Temp. [°C]	-5 - 70	-