# TECHNICAL DATA SHEET





# 205 - RAK CREETE

Cementitious Waterproof

**RAK Creete** is a two-part cement based product used for water tightness protection of concrete, masonry and most other construction materials.

#### **ADVANTAGES**

- Water Proof Coating
- · Excellent adhesion to almost all surfaces
- Non toxic, therefore suitable for contact with potable water
- Resistant to positive or negative pressures Forms a film which provides
- · anti-carbonation cover over concrete
- · Resistant to carbon dioxide and chloride ion diffusion

#### **USES**

- · Interior or exterior coating on drinking water reservoirs
- On almost all types of tanks to provide foundation protection
- · Waterproofing coating for roofs and tunnels
- · Waterproof lining for water retaining structures
- · Water tight areas such as caves, lift holes, and spillways
- Swimming Pools
- · Waterproofing background mortar for fixing tiles on terraces and swimming pools
- · Waterproofing for general construction

#### INSTRUCTIONS FOR USE

## Preparation

All Surfaces which are to receive the coating, must be free from oil, laitence, grease, wax, dirt or any other form of foreign matter which could affect adhesion. Typically concrete surfaces can be cleaned using high pressure water jet or grit blasting. Predampen the substrate surface with water. High porosity substrates will require more dampening than dense substrates. Any condensation should be removed using a sponge. Any running water should be stopped with RAK Quick Seal.

#### **SUPPORTS**

The support must be clean and free of oil, grease, dust and any other unwanted residual materials. The support to be treated should be thoroughly wet prior application.

#### **STORAGE**

Store out of direct sunlight, Protect from rain

### **TYPICAL PROPERTIES**

1.8 g/cc Density Toxicity Non-toxic Water Penetration 7 bars - leakage (2 mm dft) (DIN 1048) 5% (unbounded) Elongation % Water Vapor co-efficient 3.64 x 10 10-4 cm2/s Initial Surface absorption 95% reduction against control

CO2 diffusivity R> 357m, SC> 89cm

(1mm dft), Se-equivalent concrete thickness

Chloride ion diffusivity Zero penetration at

90 days 1.04 x 10-7 cm/s Chloride ion diffusion

co-efficient

Oxygen diffusion D02 7-6 x 10-6 cm/s

co-efficient

# SHELF LIFE

Up to 12 months if stored under 30°C away from direct sunlight

# **CHARACTERISTICS**

170 kg/cm2 Tensile Strength Resistance to -160 kg/cm2 tearing Flexibility of film -30%

1.5 mm thick

## **ORDERING GUIDE**

PRODUCT NO. 205 **STANDARDS** BS 476 Part 6 BS-1881 Part 5 1983-ISAT 20 kg Set **PACKAGING** 

COLOR White / Grey / Green

#### **APPLICATION**

RAK Creete is supplied in pre-measured containers and should be mixed on site using a clean container. Slowly add the powder to the liquid & mix using a slow speed drill fitted with a suitable paddle. Do not mix more material that can be used within one hour. The apperance of the mixture will be a creamy coat, which can be applied with a brush. Apply the first layer with sufficient thickness to cover the holes, cracks, etc. completely. The approximate consumption 2 will be 1.2 kg/m. Once the first coat is dry, apply second and third coats in order to achieve the required thickness at an average consumption rate of 900 g - 1 kg/m. It is recommended that each coat should be a minimum of 1mm thickness.



#### **HEALTH AND SAFETY**

As with all chemical products, caution should always be excercised. Protective clothing such as gloves and goggles should be worn (see packaging for specific instructions). Treat any splashes to the skin or eves with fresh water immediately. Should any of the products accidentaly swallowed, do not induce vommiting but call for medical assistance immediately. Ensure the container is available for the medical attendant to examine any relevant instructions and contents details. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling.

FLOORING & TILING 16