

OVERVIEW

RANSCRETE-AP is a single component, 100% ACRYLIC Polymer based polymer in water dispersion consisting of polymer and liquid additives. It can be used as a waterproof membrane for terraces, balconies and roof slabs. It can be used cement mortar patching and resurfacing. Mixed with a cement/sand or gravel combination. It becomes an effective patching and topping mortar having excellent adhesion capabilities and resistance to abrasion. It accommodates limited crack movement in underlying surfaces. It develops an excellent bond to most building material hence becoming a part of concrete repair.

PROPERTIES

- RANSCRETE-AP increase the plasticity of concrete and cement.
- Provided a tough and hard surface with water proofing.
- Resistant to salt penetration
- Resistant to UV rays, mild acids to strong alkalis.
- Non-Flammable.
- No health hazards to workmen.
- Can be applied on horizontal as well as vertical surfaces.

AREAS OF USE

- Water proofing of basements, toilet, terraces, roofs, swimming pools, water tanks, bridge decks, etc.
- Suitable for general concrete repairs as concrete admixture. It gives excellent bond strength.
- It can be used for protection of concrete against corrosion, salt attack, etc.
- As Bonding Agent for plaster, concreting (Old to New), stucco and cement slurry bond coat.

INSTRUCTIONS FOR USE

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general

recommended guidelines for the application of the waterproofing system are as follows:

SURFACE PREPARATION

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions shall be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable RANSCRETE-AP concrete repair mortar.

FOR WATERPROOF COATING:-

After the primer coat is completely dried apply the treatment. Mix RANSCRETE-AP with Portland cement in the ratio of 1 Part RANSCRETE-AP: NO PARTS WATER: 2.5-3 PARTS PORTLAND CEMENT using slow speed mixers. Material should be preferably mixed in small quantities to avoid wastage. Minimum 2-3 coats of RANSCRETE-AP are recommended depending on the nature of the surface.

AS CEMENT SLURRY/BONDING AGENT:-

The application surface must be clean and free from dust grease and loose particles. Surface may be damp but not saturated. Prime the prepared surface using RANSCRETE-AP PRIMER (1 part RANSCRETE-AP and 3 parts Water) with brush, roller or spray. Slurry coat with a mix design of 1:2-2.5 (1Kgs RANSCRETE AP: 2-2.5Kgs Cement).

RANS ENGINEERING & CHEMICALS offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the RANS Technical Service Department or your local RANS agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on RANS present state of knowledge and is intended to provide general information on RANS's products and their methods of use. The prospective user is recommended to determine the suitability of RANS's suggestions and products before adopting them on a commercial scale.

The applied Bonding agent should be in tacky condition before topping with new concrete. (15-20% water can be added for make slurry brushable; if Thick).

AS REPAIR MORTAR:-

The application surface must be clean and free from dust grease and loose particles. Surface may be damp but not saturated. Prime the prepared surface using **RANSCRETE-AP PRIMER** (1 part **RANSCRETE-AP** and 3 parts Water) with brush, roller or spray Repair Mortar with a Mix design of 1:2:6 (1 **RANSCRETE-AP**: 2 Part cement: 6 Part sand) applied in specific area.

After the application of repair mortar make the surface wet for 12-24 hours (It should not be flowing Water).

PRECAUTION:

Mix only the required quantity of material, which can be utilized within stipulated pot life to avoid solidification.

Wash all the tools and tackles with industrial solvent immediately after the application is completed.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

MIX DETAILS

Application	M:W:C:S	Coverage (sqm/kg)
Waterproofing coating	1 : 0 : 2.5-3 : 0	(1mm thickness in 2 coats)
Cement slurry/bonding coat	1 : 0 : 2-2.5 : 0	(1mm thickness in 2 coats)
Polymer Repair Mortar	1 : 0 : 2 : 5-6	(2mm thickness in 1 coat)

M=RANSCRETE-AP, W=Water, C=Cement, S=Sand

PACKGING & STORAGE

RANSCRETE-AP is supplied in 20kg, 50kg & 200kg plastic pails/ drums.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 12 months.

**TECHNICAL
DATA**

Product	2 Grades Multipurpose Acrylic Polymer	
Appearance	Milky White	
Grades	Grade 30%	Grade 50%
Solids Content By Weight	28±2%	46±2%
Viscosity	15000-20000cps (Brookfield) @ 20° C (ASTM D 1475-16)	
Specific Gravity	1.1±0.2 @20° C	
Touch Dry Time	5 Hr. @22° C & RH 50%	
Toxicity	Nontoxic but avoid inhalation	
Service Temperature	+5° C to +45° C	

PICTURES/IMAGES AT GLANCE



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