

## OVERVIEW

RANSPU-SEAL 1K is elastic, single component, and RANSPU-SEAL 2K is elastic, dual component, self-leveling, moisture curing polyurethane sealant specifically developed to be used as a multi-purpose floor joint sealant in applications where high chemical resistance to fuels, oils and hydrocarbons is required. The product is suitable for sealing expansion, construction and dummy joints in rigid pavements, apron areas, runways, taxi tracks, parking bays, hangars and internal and external pedestrian and trafficked joints. Concrete roads, petrol stations, warehouses, showrooms etc. are other application areas.

## PROPERTIES

- **One part** - no mixing on site, therefore superior to mix-ratio sensitive products.
- **Two Part** - Beneficial for huge/large quantity.
- Weather resistant non-staining material.
- Movement capability +/- 25%.
- Very fast tack-free time.
- Self-leveling - good contact ensured to joint surface - easy to apply.
- Pitch-free.
- Bubble-free curing, no weak areas for air bubbles to develop.
- Good mechanical and chemical resistance.
- Very good adhesion to most construction materials. Especially concrete without the need of primer.
- Permanently elastic over a wide range of temperatures.
- Conforms to ISO 11600 F 25 HM, BS 5212:1990 Type FB, and EN 14187-5.

## AREAS OF USE

It is high performance single and dual component moisture curing sealant suitable for a number of applications viz:-

- Vertical and Horizontal expansion joints.
- Concrete Control Joints.
- Precast and tilt-up construction.
- Masonry expansion joints.

- Aluminium curtain walls and storefronts.
- Doors & Windows & Submerged applications.

## INSTRUCTIONS FOR USE

RANSPU-SEAL 1K & RANSPU-SEAL 2K has excellent adhesion properties even without the use of primer on most common building materials. However, natural stone, paints, coatings and other treatments of surfaces may present a difficult surface to which to adhere. Due to the number of unpredictable natures of these substrates, a preliminary test is recommended. RANSTHANE-PMR may be required for porous surfaces. Recommended application temperatures: 5° - 35°C. For easier use or cold weather application we recommend the material is stored at approximately 25°C prior to use. In order to guarantee free movement of sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore joint backer rod should be used at the proper depth.

Apply appropriate primer to joint sides and observe waiting time to avoid any air bubbles which may arise from the solvent heating under un-cured sealant.

Firmly extrude sealant into the joint making sure that it is in full contact with the sides of the joint

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.

and with the backing rod at the bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.

Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape while the sealant is still soft.

#### HEALTH & SAFETY

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

#### PACKGING & STORAGE

RANSPU-SEAL is packaged in 1 Kg & 4 Kg Pack.  
**COLOUR: - Pack A is white and Pack B is Black to dark brown in Colour.**

**For RANSPU-SEAL 1K - Minimum 6 months.**

**For RANSPU-SEAL 2K - Minimum 30 months.**

**(In unopened conditions. Store away from sunlight and preferably below 25° C-30° C.)**

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold.

Unopened containers can be stored according to

**TECHNICAL  
DATA**

<b>Product</b>	2 Grades Polyurethane Sealant
<b>Tack-Free Time@25°C</b>	60 Minutes (ASTM C679)
<b>Curing Rate</b>	1/8" per 24 hours
<b>Shore A hardness</b>	40 (ASTM C661)
<b>Effect of Heat Aging</b>	None
<b>Adhesion to Concrete</b>	27 Ibf, no adhesion loss (ASTM C794)
<b>Stain &amp; Color Change</b>	None (ASTM C510)
<b>Effects of Accelerated Weathering</b>	No Cracking (ASTM C793)
<b>Elongation to break</b>	>600%
<b>Extrusion Rate</b>	55mL/min (ASTM C1183)
<b>Weather Resistance</b>	Excellent
<b>Service Temperature</b>	-400F - 1940F (-40°C- 90°C)
<b>Compatibility with Paints</b>	Water Based
<b>Shelf Life</b>	6-30 Month if unopened according to Grade & Keep dry and away from extremes of heat

**PICTURES/IMAGES AT GLANCE**



**RANS ENGINEERING & CHEMICALS PVT. LTD**

[An ISO 9001: 2015 Company]

205, GALI NO-7, A BLOCK, BRIJPURI

YAMUNA VIHAR, NEW DELHI-110094

CONTACT AT: +91-11-22170895, +91-9871393743

Website: [www.ransengineering.com](http://www.ransengineering.com)

Email: [ransengineering@gmail.com](mailto:ransengineering@gmail.com)