**2C PUR**

**Two Component Fast Cure Poly Urethane Resin for Sealing**

**Product Description**

VND 2C PUR is a two component resin for permanent water sealing applications. VND 2C PUR is environmental friendly resin and does not contain any solvent or any other volatile chemicals.

VND 2C PUR has component A and component B. When mixed together 1: 1 a hydrophobic resin/foam is formed which prevents large, rapid water leakages.

**Benefits and Features**

* Environmental friendly resin: VND 2C PUR does not have any solvent
* Easy handling: Packed in 30 kg and 35 kg easy handling containers.
* VND 2C PUR always reacts rapidly with or without water. This is a significant advantage as the reaction is always fully complete and product is completely cured.
* In presence of water VND 2C PUR forms as rigid foam with in few seconds. In absence of water product forms stiff and high strength material with minimum expansion.
* Good adhesion to various substrates
* Good Chemical Resistance

In certain conditions if needed VND 2C PUR can be further cured extremely fast, by adding 0.5 to 9 % of our accelerator VND 2A.

**Technical Data**

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| --- | --- | --- |
| VND 2C PUR **Data** | **Component A** | **Component B** |
| Color | Light yellow/ brown | Brown |
| Density at 25 ⁰C (g/cm3) | 1.05 | 1.23 |
| Viscosity at 25 ⁰C (cps) | 150 to 350 | 150 to 250 |
| Mixing ratio (in volume) | 1 | 1 |
| Shelf Life at 25 ⁰C (months) | 12 | 12 |
| Storage temperature ⁰C | 15 to 35 | 15 to 25 |

**Reaction Data** VND 2C PUR

|  |  |
| --- | --- |
| Reaction Data at | 25 ⁰C |
| Start of Foaming (Seconds) | 15 ± 10 s  |
| End of Foaming (Seconds) |  30 ± 10 s |
| Expansion ratio (in absence of water) | Less than 2.5 times  |
| Expansion ratio (in Presence of water) | Up to 15 times  |
| Track free Time (Seconds) | 60 ± 10 s |
| Complete cure time (Minutes) | Less than 15 minutes |

**Applications**

VND 2C PUR can be used in various applications to prevent water/ other leakages, like

* Mining – Prevent high pressure water inflow into mine cavities
* Void filling
* Civil Engineering – Foundation stabilization/ prevents moisture in basements
* Tunneling- Rapid setting resin will help/ prevent water seepage into tunnels
* Reconstruction/ repairing of construction joints

**Application Guidelines**

Components A and B of VND 2C PUR are delivered ready to use. They are injected in the ratio 1:1 using a two component injection pump equipped with in-line mixer. Laxven mixer or any other commercial inline mixer/ injection system with 1:1 capability can be used.

**Packaging**

VND 2C PUR is available in the following packing:

Component A: 30 kg cans or 210 kg drums

Component B: 35 kg cans or 245 kg drums

**Storage**

Both component A and B should be sealed in closed containers until used. If stored in dry conditions, unopened, tightly sealed both components are stable for one year at 15 to 35⁰C.

**Safety Precautions**

Refer to the Material Safety Data Sheet for safety measures.

Avoid contact with skin and eyes by using personal protective equipment, such as overalls, gloves and eye googles.

If in contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly and seek medical advice.

The cured products are harmless.

Uncured products should be prevented from entering local drainage system and water courses. Spillage must be collected using absorbent materials such as sawdust and sand and dispose of in accordance with local regulations.