

# CIKOgrout PU

## Hydrophobic, Medium Viscosity Polyurethane Grout

### Description

CIKOgrout PU is a medium viscosity, hydrophobic polyurethane formulation with impressive elongation characteristics. It is designed for sealing cracks or joints. The system is comprised of base resin along with accelerator component. Being a hydrophobic formulation, when comes into contact with water, produces a semi flexible polyurethane foam.

### Properties

- Can withstand high hydrostatic pressure
- 100 % solid, Environmentally safe
- Variable reaction times
- Semi flexible
- Expands up to 25 times initial volume
- Outstanding adhesion
- Non-flammable
- Reacts with saline and mineral water

### Application area

- Water retaining structure.
- Waste water treatment plants and manholes
- Tunnels , elevators pits & foundations
- Void filling
- Back Grouting

### Physical properties

Liquid uncured	Resin	Accelerator
Colour	Brown liquid	Clear liquid
Viscosity at 25 °C	300-400 mPa.s	25-35 mPa.s
Flash point	>180 °C	>180 °C
Density at 25°C	1.12	1.00

### Testing CIKOgrout PU

All test carried out using the following mix ratio:

Resin: 100 parts by weight.

Accelerator: As % of Resin by weight

Water: In all tests, 10 parts by weight .

Cream time ,Sec				
Accelerator	1 %	2 %	5 %	10 %
10 °C	128	125	41	25
15 °C	100	69	36	24
25 °C	73	5	24	20
35 °C	60	30	25	19
Rise Time, Sec				
Accelerator	1 %	2 %	5 %	10 %
10 °C	10 min	5 min 49 sec	124 sec	78 sec
15 °C	9 min	5 min 5 sec	120 sec	75 sec
25 °C	8 min	4 min 45 sec	115 sec	63 sec
35 °C	5 min	3 min 4 sec	108 sec	60 sec
Expansion rate				
Accelerator	1 %	2 %	5 %	10 %
10 °C	8X	11X	15X	28X
15 °C	9X	14X	20X	29X
25 °C	10X	15X	25X	30X
35 °C	10X	20X	25X	30X

\*All the technical data stated herein is based on tests carried out under laboratory conditions

### Application instructions

Mix both the Resin component A and accelerator component B before combining.

Pour the desired amount of Resin component into a clean pail, measure the appropriate amount of accelerator component B and mix. Pump – premixed resin by a single component injection pump that is equipped for high pressure.

During injection, the grout will follow the path of least resistance. When the material has stopped penetrating it will continue to expand against the confines of the crack /joint and compress within itself, forming a very dense, closed cell material stopping the leak.

### Packaging

Resin: 20 kg and 5 kg

Accelerator: 2 kg and 0.5 kg

### Shelf life

CIKOgrout PU has a shelf life of 12 months if stored in accordance with manufacturer instructions.

## Storage

CIKOgrout PU should be stored under cool enclosed shaded area at temperatures between 5 – 35<sup>0</sup>C.

## Health & safety

CIKOgrout PU should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

### **Technical Support**

*For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.*

### **More from CIKO Middle East**

*A wide range of construction chemical products are manufactured by CIKO Middle East which includes:*

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

TDS/GA18 Rev.:1 Issue:C

Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control



ص. ب رقم : ٢٩٥ ، الدوحة - قطر  
ت : ٤٤١١ ٤٧٨٧ ، ٤٤١١ ٤٧٩٠ ، ٤٤١١ ٤٧٩٤ ، +٩٧٤  
فلكس : +٩٧٤ ٤٤١١ ٤٧٩٢

P.O.Box : 295, Doha, Qatar  
T.: (+974) 4411 4787 / 4411 4790 / 4411 4794  
F.: (+974) 44114792  
E-mail: enquiries@cikome.com