

WHITECHEM WP-35

Polyurethane Based Sealant

1 – DESCRIPTION

WHITECHEM WP-35 is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all typical construction materials such as cement based materials, brick, ceramic, glass, wood, galvanized and painted sheet iron and various plastics.



2– PROPERTIES

- Possesses permanent elasticity
- No sagging – Thixotropic
- No surface tackiness after full cure.. Do not pick up dirt
- No shrinkage
- Enhanced storage stability
- Can be applied with hand gun and tooled easily
- Paintable
- Cures bubble-free
- 25 % movement capability

3 – APPLICATION AREAS

- Expansion joints between many different construction materials
- Movement and connection joints in floors
- Indoor and outdoor applications for pedestrian and traffic areas
- Joints between prefabricated construction materials
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels

4 – SURFACE PREPARATION AND APPLICATION

- Before application, be sure that joint surfaces are clean, dry and free of all contamination
- Apply sealant evenly, If necessary, use masking tape and remove the tape while the sealant is still soft.
- Joint width/depth ratio should be 2:1 (Table 1)
- If necessary, use back up material to adjust joint depth
- Sealants should adhere to only two surfaces of the joint: Use backer rods and bond breakers to facilitate.

Consumption (approx.) (Table 1)

Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length /600 ml	5 meters	3 meters	2 meters	1,3 meters	1,1 meters

5- PACKAGING

Product	Volume	Package
White / Black / Grey	310ml	12
White / Black / Grey(Sausage)	600ml	12

6- STORAGE AND SHELF LIFE

12 months if stored in its original package, away from direct sunlight and moisture, between +10 °C and +25 °C

7- RESTRICTIONS

- It must not be used in totally confined spaces where sealant cannot cure
- In due to lack of atmospheric moisture.
- Do not use in applications where continuous water immersion is possible.
- Prolonged exposure to direct sunlight can cause discoloring,

8- TECHNICAL PROPERTIES

BEFORE CURING	
Basis	: Polyurethane
Consistency	: Thixotropic
Curing Mechanism	: Moisture Curing
Density	: 1,20±0,03 g/ml
Tack free time	: 30-70 min. (23°C and 50% R.H)
Curing Rate	: Min. 2,5 mm/day (23°C and 50% R.H)
Sagging	: 0 mm (EN ISO 7390)
Temperature Resistance	: -40°C to +90°C
Application Temperature	: +5°C to +40°C
AFTER CURING	
Hardness Shore A	35-40 After 28 days (ASTM C661)
Paintability	Yes *
Elastic Recovery	≥ 70% (ISO 7389)
<i>*Considering the diversity of paint base and quality, compatibility tests should be done before application.</i>	
GLASS-GLASS	
Elongation at break	Min. ≥ 100% (ISO8339)
E100 Modulus (23 °C)	0.35-0.40 N/mm ² (ISO8339)
E100 Modulus (-20 °C)	≤ 0,60 N/ mm ² (ISO8339)
DUMBLE TEST	
Elongation at break	≥%600 (ASTM D412)
Tensile Strength	1.5-2.0 N/ mm ² (ASTM D412)

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