



BETASEAL™ 16005N

Glass Bonding Systems

BETASEAL™ 16005N is one component, moisture curing adhesive with excellent sag and bead stability based on polyurethane chemistry. The adhesive cures with environmental moisture and skin formation and curing is dependent on humidity, temperature and application dimensions.

BETASEAL™ 16005N is cold processable, high viscosity, medium modulus, glass bonding adhesive.

Product information

| | |
|---------------|--------------|
| Colour | Black |
| Basis | Polyurethane |
| Solid content | ≥99 % |

Uncured properties

| | |
|---------------|-------------|
| Skinning time | 18 - 30 min |
| Sagging | ° |

Rheological properties

| | |
|---|--------------------------|
| Cup Viscosity | 20 - 50 ^[1] s |
| [1]: 20g sample; 4mm/.157in orifice at 23°C/73°F and 550 kPa/80 psi | |

Application technique

| | |
|------------------------|--------------|
| Processing temperature | 64.4 - 95 °F |
|------------------------|--------------|

Cured properties

| | |
|-----------------------|--------------|
| Temperature stability | -40 - 212 °F |
|-----------------------|--------------|

Typical mechanical properties

| | | |
|----------------------------|-------------------------|--------------|
| Tensile Modulus | 580.152 psi | ISO 527-1/-2 |
| Tensile Strength | 1160 psi | ASTM D 412 |
| Elongation at break | 250 % | ASTM D 412 |
| Shear modulus | ≥203 ^[2] psi | |
| Lap shear strength, 3 days | ≥493 psi | DIN EN 1465 |
| Shore A hardness | 68 | ASTM D 2240 |
| [2]: 10% Strain | | |

Other properties

| | | |
|---------|-------------|----------|
| Density | 9.84 lb/gal | ISO 1183 |
|---------|-------------|----------|



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Storage and stability

Shelf life

180^[3] days

[3]: Short time storage temperatures: 0°C/32°F to 40°C/104°F. From date of manufacture at +5°C/41°F to +35°C/95°F in unopened containers.

Additional information

How to use

Resistance to Chemicals:

BETASEAL™ 16005N is highly resistant to aqueous chemicals, petrol, alcohol and mineral oils; conditionally to esters, ketones, aromatics and chlorinated hydrocarbons.

Bonding Surface Preparation:

For BETASEAL™ 16005N all bonding surfaces must be free of dirt, dust, water, oil and grease. Verify compatibility or consult our technical service department.

Cleaning:

Uncured adhesive residues of BETASEAL™ 16005N can easily be removed with Isopropanol or similar solvent. (Test non visible area of substrate with solvent to confirm it won't affect the topcoat). Hardened adhesive residues can only be removed mechanically.

Information:

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