



# BETASEAL™ 15900N

## Glass Bonding Systems

BETASEAL™ 15900N 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™ 15900N 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       | 0           |

### Rheological properties

|               |                          |
|---------------|--------------------------|
| Cup Viscosity | 25 - 50 <sup>[1]</sup> s |
|---------------|--------------------------|

[1]: 20g sample; 4mm/.157in orifice at 23°C/73°F and 550 kPa/80 psi

### Application technique

|                        |            |
|------------------------|------------|
| Processing temperature | 18 - 35 °C |
|------------------------|------------|

### Cured properties

|                       |              |
|-----------------------|--------------|
| Temperature stability | -40 - 100 °C |
|-----------------------|--------------|

### Typical mechanical properties

|                            |                         |              |
|----------------------------|-------------------------|--------------|
| Tensile Modulus            | 4 MPa                   | ISO 527-1/-2 |
| Tensile Strength           | 9.0 MPa                 | ASTM D 412   |
| Elongation at break        | 250 %                   | ASTM D 412   |
| Shear modulus              | ≥1.4 <sup>[2]</sup> MPa |              |
| Lap shear strength, 3 days | ≥3.4 MPa                | DIN EN 1465  |
| Shore A hardness           | 70                      | ASTM D 2240  |

[2]: 10% Strain

### Other properties

|         |                        |          |
|---------|------------------------|----------|
| Density | 1170 kg/m <sup>3</sup> | ISO 1183 |
|---------|------------------------|----------|



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### Storage and stability

Shelf life

6<sup>[3]</sup> months

[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™ 15900N is highly resistant to aqueous chemicals, petrol, alcohol and mineral oils; conditionally to esters, ketones, aromatics and chlorinated hydrocarbons.

#### Bonding Surface Preparation:

For BETASEAL™ 15900N 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™ 15900N 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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