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8. DOWSIL™ 3363 Insulating Glass Sealant
9. DOWSIL™ 994 Ultra Fast Bonding Sealant
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11. New – Low VOC’s
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GLOBAL TRENDS

- Architectural Designs
- Climate
- Modernization
- Technology
- Environment
- Quality of life
- Connectivity
- Mobility
- Population & Urbanization
IMPACTING DESIGN

- XXL Glass
- Energy Efficiency
- Quality
- Digitalization
- Productivity
- Fire Safety
- Cost
- Green Building
- Acoustics
- Sustainability
- Durability
Dow addressing key trends

- Aesthetics & durability
- Quality
- Air & rain tightness
- Digital & expertise
- Fire protection
- Hurricane
- Bomb blast
DOW TECHNOLOGY & SERVICES

Engineering experience

Crystal Clear Bonding & sealing

Panel bonding

Sprayable air & weather barrier

Crystal Clear Spacer

Crystal Clear Bonding & sealing

3D printable silicones

Weatherproofing Edge seal

Fire retardant silicones

Decorative glass lamination

Structural silicone Glazing

Weatherproofing Sealants

Insulating glass

Color-matched butyl

Quality Bond

Hybrid sealants

Weatherproofing membranes

Digital project management & training

Dow Technology & Services

Dow Restricted
HOW TO GET ‘FULL VISION’ ? ....

TODAY: Insulating glass unit as DOORS sealed with BLACK EDGE
GET ‘FULL VISION’ WITH DOWSIL™ CRYSTAL CLEAR SPACER

A CRYSTAL CLEAR EDGE
**DOWSIL™ CRYSTAL CLEAR SPACER**

**Application:** Insulating Glass Doors for commercial refrigeration

- Doors, side elements
- Air-filled insulating glass
- Energy conservation
- No additional technical requirements
**DOWSIL™ CRYSTAL CLEAR SPACER**

**GET YOUR FULL VISION WITH A FLEXIBLE, PRODUCTIVE AND DURABLE CLEAR SPACER**

### Features
- Very high transparency
- Fast manual application
- Chemical adhesion to glass
- Flexible, elastic Silicone
- Supplied ready to use
- No outgasing

### Benefits
- Crystal Clear aesthetics
- Increased cost efficiency
- High adhesion durability
- Various shapes, round, rectangular, etc.
- Flexible spacer accommodating movement
- Compatibility to Dow Silicones for Insulating Glass
Where do I get my spacer?

- Discuss your needs, spacer sizes, individual length of DOWSIL Crystal Clear Spacer with your DOW distributor
- Spacer will be made available based on your individual needs
- DOW proven quality, tailored to your needs
**Cost & Productivity Enhancement**

**TODAY Solution:** PMMA, PC, glass bars
- Crystal clear spacers PMMA, PC, glass bars
- Process: Cleaning, cutting, priming, applying tapes

**NEW DOWSIL Crystal Clear Spacer:**
- Glass cleaning & Priming
- Spacer application
- Chemical adhesion in 5 Minutes
- DONE
First units have been produced and placed in supermarket
### Where to buy
- Contact Your local DOW Technical distributor

### Dimensions
- Length: < 1,80 m per spacer
- Thickness: 12,5 mm
- Bite: 10 mm
- Other dimensions tailored to your needs

### Promotion
- DOW Spacer application manual
- DOW Sell sheets
- DOW Technical data sheet

### Application
- Flexible Silicone Spacer for Insulating glass, air-filled
- IG for commercial refrigerator doors, side elements, etc.

### Price
- Dependent on spacer dimensions, spacer length and volume
- For specific price requests, please contact your local distributor.
- Indicative price 9,5-10,5€/m

### Samples for testing
- Samples available on request. Please contact Davide Bianchi
DOWSIL™ MEMBRANE FaçADE SYSTEM

A system for façade sealing

Providing high quality and a compatible solution
Features

- **High quality** due to use of NORDEL™ EPDM raw materials from Dow
- **Compatible solution** through System Package: Membrane & Adhesive
- **Quick and easy** installation
- One stop shop
- Acts as a vapor control acc. To EN 13984
- Act as a vapor control acc. to EN13984

Benefits

- Compatible solutions gives peace of mind
- High performance at low thickness allowing high Flexibility for 3-dimensional fitting
- Membrane AND Adhesive: Resistant to UV light, temperature extremes, chemical pollutants and moisture
- Low VOC materials (sealant & membrane) complying with very high indoor air quality standards
# DOWSIL™ Membranes Façade System Product

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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| DOWSIL™ Membrane         | High performance EPDM membrane for use as water vapor control layer according to EN 13984:  
                           • DOWSIL Membrane Dual  
                           • DOWSIL Membrane Outside |
| DOWSIL™ 300 Adhesive     | One component, elastic SMP Adhesive                                                                                                         |
### DOWSIL™ Membranes Façade System

**DOWSIL™ Membranes and DOWSIL™ 300 Adhesive**

High performance EPDM membranes

- **DOWSIL™ Membrane DUAL 0.6**
- **DOWSIL™ Membrane DUAL 1.0**
- **DOWSIL™ Membrane DUAL 1.2**

<table>
<thead>
<tr>
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<th>DOWSIL™ Membranes DUAL 1.0</th>
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</table>

*Other dimensions available on request

**The graphic representations are presented here for illustrative purposes only and should not be construed as product specifications.**

- **DOWSIL™ 300 Adhesive** – black, 600ml SGE

DOW RESTRICTED
### Certifications
- DOWSIL™ Membranes acc. to EN 13984

### Warranty
- DOWSIL Membranes & DOWSIL Adhesive 300 Level 1 (product warranty)

### Samples
- Samples are available on request
## DOWSIL™ Membranes Façade System, Membranes and 300 Adhesive Material Numbers

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WHAT HAPPENS TO FAÇADE/BUILDING COMPONENTS WHEN MOISTURE/WATER VAPOR TRANSMISSION IS NOT CONTROLLED
DOWSIL™ MEMBRANE FAÇADE SYSTEM - APPLICATIONS

▲ sealing the window perimeter
▲ sealing the joint between floors
▲ sealing the window perimeter, window/starter sill
▲ sealing the vertical-to-horizontal transition location
SEAL CHALLENGING CONNECTIONS:

- Level to level connections
- Glass to opaque building element connections
- Perimeter connections
DOWSIL™ 335 Butyl Sealant
DOWSIL™ 3363 IG Sealant
High Performance for incredible heights DOWSIL™ 3363 High Strength IG

#Adrian Smith & Gordon Gill Architecture - Jeddah Tower, Jeddah / DOWSIL 993/3363/791
Proven DOWSIL™ 3363 Insulating Glass Sealant for enhanced productivity and economic joints in demanding applications

- A fully compatible package for pure glass facades
- Bundled with DOWSIL 335 Butyl it further enhances aesthetics for one edge-one color and one system
DOWSIL™ 335 BUTYL SEALANT SPECIAL BLACK

Features

• High temperature resistance up to +95°C
• Meets the requirements acc.to EN 1279-(part 2,3 & 4)
• Good physical adhesion to glass and a variety of warm edge and standard spacers
• Solvent-free* and odorless
• Compatible with the DOWSIL™ range of neutral façade silicone materials

Benefits

• No evidence of Butyl trickles or flows due to high temperature resistance
• Homogeneous edge due to color matching to
  – DOWSIL™ 3362 Insulating Glass Sealant
  – DOWSIL™ 3363 Insulating Glass Sealant
• System package - one stop shop

* being manufactured without added solvent.
DOWSIL™ 335 Butyl Sealant
Primary sealant for gas-filled insulating glass

Application

- Butyl primary sealant for Insulating Glass
- Commercial and residential insulating glass
**DOWSIL™ 335 Butyl Sealant Special Black**

**Primary sealant for gas-filled insulating glass**

- Insulating glass unit sealed with industry *standard black color*
- Visible color difference between primary & secondary seal

- Insulating glass unit sealed with DOWSIL™ 3363 Insulating Glass Sealant & DOWSIL™ 335 Butyl Sealant Special Black
- Color matched for improved aesthetics
## DOWSIL™ 335 Butyl Sealant Technical Snapshot Product Properties

### Material Numbers

<table>
<thead>
<tr>
<th>Material Numbers</th>
<th>Certification Numbers</th>
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</thead>
<tbody>
<tr>
<td>DOWSIL™ 335 SPECIAL BLACK, 7.4 kg slug *</td>
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<tr>
<td>DOWSIL™ 335 SPECIAL BLACK, 200kg drum</td>
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</tr>
<tr>
<td>DOWSIL™ 335 BLACK, 7.4kg slug*</td>
<td>99151196</td>
</tr>
</tbody>
</table>

* 96 slugs/pallet

### Certifications (Special Black)

- Compatibility to DOWSIL™ 3363, 3362, 993, 994
- DOWSIL 335 Specail Black:
  - EN 1279 part 2/3/4
  - High temperature test
  - CEKAL
- DOWSIL 335 Black:
  - EN 1279 part 2

### Applications

- Butyl primary sealant for Insulting Glass
- Commercial and residential insulating glass
- Applicable with standard butylizers
- **NOTE**: not to be used with soft/flexible spacers

### Colors

- Standard black
- Special black (color matched)

### Warranty

- No warranty as for any other Butyls in the market

### Samples

- Samples are available on request

---

The graphic representations are presented here for illustrative purposes only and should not be construed as product specifications.
**Features**

- New high strength polyurethane technology
- Superfast curing
- Excellent flowability
- Light packaging
- Black color option

**Benefits**

- Enhanced productivity
- Efficient & fast application
- Pure glass aesthetics & invisible bond
- Ergonomic handling due to light packaging
- Compatible & warranted system (top seal: DOWSIL™ 813C Silicone)

*DOWSIL™ 375 CONSTRUCTION & GLASS EMBEDDING*

**Efficiency, durability, aesthetics**
Apply tape to protect glass

Apply release agent on glass and U-profile

Insert glass panel into U-profile

Fix with setting blocks and block gaps

Pour part B in part A pail and mix thoroughly

Transfer into U-profile by pumping or pouring

Allow to level and leave to cure

Certified according DIN 18008-4
### Price
- Value pricing & Specification
- Selling price DOWSIL 375: distribution 7.5-8 €/kg
- Direct: 8-9€/kg
- Color paste directly by distribution

### Where to buy?
- Direct or through distribution
- Samples available on request; please contact Guy Beaucarne

### System package
- DOWSIL 375 PU
- DOWSIL 813 SI
- COLOR PASTE Black
- Silicone spray recommendation

### Product
- DOWSIL 375 Glass Embedding Part A - Polyol, 16kg pail (GMID available)
- DOWSIL 375 Glass Embedding Part B - Hardener, 3kg (GMID available)
- Color paste (distribution only)
- DOWSIL™813 Silicone

### Promotion
- Technical datasheet
- Glass Embedding sellsheet
- Glass Embedding application video
- Distributor launch video
- External presentation
- Webinar, PBM, Direct promotion

### Certification & Warranty
- 10 Years product warranty
- System (DOWSIL 375 & 813)
- Under Quality Bond Program
- Impact resistance testing and approval ongoing
- Global certification need: not (yet) considered
DOWSIL™ FIRE SAFETY FOR HIGH PERFORMANCE BUILDINGS
DOWSIL™ FIRE SAFETY RANGE APPLICATIONS

Silicone chemistry – beneficial in fire retardant designs.
Note: Project specific testing is required when using DOWSIL™ Silicone at the connection between floor and curtainwall.
# DOWSIL™ Fire Resistant Sealant Range

<table>
<thead>
<tr>
<th>DOWSIL™ product</th>
<th>Type</th>
<th>Application</th>
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</thead>
<tbody>
<tr>
<td>DOWSIL™ 3-6548 RTV Silicone Foam</td>
<td>2p silicone foam</td>
<td>Penetration seals in floors and walls, linear joints in floors</td>
</tr>
<tr>
<td>DOWSIL™ FIRESTOP 700 Sealant</td>
<td>1p silicone, gun grade</td>
<td>Linear joints in walls, penetration seals in walls</td>
</tr>
<tr>
<td>DOWSIL™ Smoke Seal 800SL</td>
<td>1p silicone, self leveling</td>
<td>Linear joints, smoke seals</td>
</tr>
<tr>
<td>DOWSIL™ FIRESTOP 400 Sealant</td>
<td>1p acrylic, intumescent</td>
<td>Internal perimeter pointing around fire-rated door and window frames</td>
</tr>
</tbody>
</table>
Two-component dark grey silicone rubber foam
- 50% closed cell
- Low density (machine-manual mixing: 0.3-0.523 g/cm³)
- Excellent fire movement capacity (25%)
- Thermal Conductivity = 0.084 W/mK

Certified for
- Fire rated penetration seals in floors according to annex B of EN1366-3: small cables (Ø27mm) with PVC sheathing and medium cables (Ø50 mm): up to EI 60
- Fire rated penetration seals in walls and floors according to BS476-22: up to EI 240
- Fire rated linear joints in floors (EN1366-4): up to EI120
DOWSIL™ FIRESTOP 700 SILICONE SEALANT | CHARACTERISTICS

- A low-modulus, one-part, neutral-curing silicone
  - Excellent adhesion to most porous and non-porous surfaces
  - Joint movement capability (±50%) according to EN ISO 11600

- Application
  - Working time: 15 minutes
  - TFT: 1.5 hours

- Certified for
  - Fire rated horizontal and vertical linear joints in walls (EN1366-4 and BS476-22)
DOWSIL™ SMOKE SEAL 800SL | CHARACTERISTICS & APPLICATION

- A self-leveling, one-part, neutral curing silicone
  - Expansion joints in fire compartment floors or at the connection between floor slab and wall
  - Maintains the MW in place during thermal movements to avoid vertical flame and smoke spread
  - Excellent adhesion to most porous and non-porous surfaces
  - Excellent fire movement capacity (25%)

- Application
  - Skin over time: 25 minutes
  - TFT: <1 hour

- Certified for
  - Fire rated linear joints in floors/floor to wall (EN1366-4)
A one-part, intumescent acrylic rubber sealant

- Internal perimeter pointing around fire-rated door and window frames
- Sealing of small internal joints between fire-rated partitions used in offices, for example, to separate rooms
- Its intumescent qualities helps support the sealant to swell in heat conditions to form an effective barrier against fire and smoke
- Low movement capacity (7.5%)
- Good adhesion to a variety of substrates without the use of a primer
- Does not emit halogenated by-products under fire conditions

Certified for

- Vertical linear joints in wall (150 mm) applications (BS 476-20)
- Bite ranging from 6 to 25mm, thickness from 6 to 15 mm
- Single (EI 60) and double joints (EI 240)
- Backing material: MW and PU/PE
**DOWSIL™ Fire-Rated Sealants for Smoke and Fire Retardancy**

- **EN 1366**
- **ETA**

<table>
<thead>
<tr>
<th>DOWSIL™ Firestop 700</th>
<th>DOWSIL™ Firestop 400</th>
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<tr>
<td>Silicone Sealant</td>
<td>Acrylic Sealant</td>
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<tr>
<td>Fire-rated sealant for interior and exterior linear joints and penetration seals</td>
<td>Fire-rated paintable seals for interior walls and gap sealing</td>
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DOWSIL™ FIRE-RATED SEALANTS FOR SMOKE AND FIRE RETARDANCY

EN 1366

DOWSIL™ Smoke Seal 800SL
Fire-rated self-leveling sealant for floor joints and horizontal connection seals

DOWSIL™ 3-6548 RTV Silicone Foam
Fire-rated silicone foam for sealing linear cable/pipe penetrations and gaps
## Low VOC Offering

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<th>Regulation or protocol</th>
<th>Structural Glazing</th>
<th>Windows &amp; Doors</th>
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## Low VOC Offering

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