

# DOWSIL™ 375 Construction & Glass Embedding

For efficiency, aesthetics and durability of glass railing and wall embedding



The increasing popularity of glass panels for balcony and staircase balustrades in modern building designs brings individuality and elegance, allowing natural and artificial light to transmit more freely and offer more unobstructed views when viewed both from and at the property.

Installation of metal railing and frameless glass balustrade systems is now even easier and quicker following the introduction of a new pourable, self-levelling, two-component polyurethane resin-based grout from Dow. DOWSIL™ 375 Construction & Glass Embedding has been specifically developed to securely mount and support flat and curved monolithic or laminated glass panels in the U shaped profiles used in these system designs and in other interior and exterior embedding applications. It is easy to mix and install on-site and has rapid room temperature cure speed to provide safety and rigidity.

Dow recommends the application of fully compatible DOWSIL™ 791 Weatherproofing Sealant over the top surface of the polyurethane once cured.

## Features and benefits

- Pure glass aesthetics with non-visible bonding
- Rapid strength build-up for enhanced safety
- Excellent flowability for efficient application
- Containers and fill-levels designed and proportioned to facilitate pouring hardener into the polyol pail and mixing without measuring
- Lightweight container sizes – easy handling
- Efficient and fast application for enhanced productivity
- High rigidity for minimized panel deflection
- Compatible with weatherseal joint material

## Typical properties of DOWSIL™ 375 Construction & Glass Embedding

Test	Property	Unit	Result
<b>DOWSIL™ 375 Construction &amp; Glass Embedding – Part A – Polyol (as supplied)</b>			
	Color		Cream
ASTM <sup>1</sup> D4889	Viscosity Brookfield, 25°C	mPa.s	17000
ISO <sup>2</sup> 2811	Specific gravity, 20°C	g/cm <sup>3</sup>	1.61
<b>DOWSIL™ 375 Construction &amp; Glass Embedding – Part B – Hardener (as supplied)</b>			
	Color		Brown
ASTM D4889	Viscosity Brookfield, 25°C	mPa.s	160-240
ISO 2811	Specific gravity, 20°C	g/cm <sup>3</sup>	1.23
<b>DOWSIL™ 375 Construction &amp; Glass Embedding (Mixed)</b>			
	Color		Cream
	Mixing ratio (weight)		100:19
	Mixing ratio (volume)		100:25
ASTM D4878	Viscosity (mixed) at 23 °C	mPa.s	5000
DOWM 10159	Pot life	min	60
	Curing time at 20°C	hours	7
ISO 868	Shore D hardness		70
ISO 527	Tensile strength	MPa	17 (2465 psi)
ISO 527	Elongation at break	%	11

1: ASTM: American Society for Testing and Materials  
2: ISO: International Standardization Organization

For more information, please refer to the DOWSIL™ 375 Construction Glass & Embedding technical datasheet and application guide.



**Dow Building Science website:**  
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## Approvals

Balustrade assemblies made with DOWSIL™ 375 Construction & Glass Embedding have passed pendulum tests according to DIN 18008-4 at an independent test institute.

## Available packaging

DOWSIL™ 375 Construction & Glass Embedding is a two-component system.

### Part A polyol 16kg

### Part B hardener 3kg

Packaging designed such that the small hardener container can be opened and poured directly into a newly opened large polyol pail and mixed using a drill powered paint mixer at the correct ratio. No measuring required. As such, pails may not be filled to the top as the to accommodate and facilitate manual mixing.

## For more information

Learn more about Dow's full range of High Performance Building solutions, including service and support, at [dow.com/buildingscience](http://dow.com/buildingscience).

Dow has sales offices, manufacturing sites and science and technology laboratories around the globe. Find local contact information at [dow.com/contactus](http://dow.com/contactus).

**DOWSIL™**  
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