DOWSIL™ 375 Construction & Glass Embedding

For efficiency, aesthetics and durability of glass wall embedding

Features and benefits

- Pure glass aesthetics with invisible bonding
- Rapid strength build-up for enhanced safety
- Excellent flowability for efficient application
- Lightweight container sizes – easy handling
- Efficient and fast application for enhanced productivity
- Optimized rigidity to minimize panel deflection.
- Compatible and warranted system
- Option available to pigment the material in black

The increasing popularity of glass panels for balcony balustrades in modern building designs brings individuality and elegance, allowing natural and artificial light to flow freely and unobstructed views from both the inside and outside the property.

Installation of glass balustrade systems without frames is now even easier and quicker following the introduction of a new pourable, self-levelling, two-component polyurethane 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 a very high cure speed at room temperature 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, to offer protection from water ingress and UV exposure.

Typical properties of DOWSIL™ 375 Construction & Glass Embedding

Test	Property	Unit	Result
DOWSIL™ 375 Construction & Glass Embedding – Part A – Polyol as supplied			
	Colour		Cream
ASTM[1] D4889	Viscosity Brookfield, 25°C	mPa.s	17000
ISO[2] 2811	Specific gravity, 20°C	g/cm³	1.61
DOWSIL™ 375 Construction & Glass Embedding – Part B – Hardener as supplied			
	Colour		Brown
ASTM D4889	Viscosity Brookfield, 25°C	mPa.s	160-240
ISO 2811	Specific gravity, 20°C	g/cm³	1.23
DOWSIL™ 375 Construction & Glass Embedding mixed			
	Colour		Cream, black (with pigment)
	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
ISO 527	Elongation at break	%	11

[1] ASTM: American Society for Testing and Materials
[2] ISO: ISO: International Standardization Organization
These are typical properties, not to be construed as specifications.

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

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

The components can be easily mixed to create a homogenous color in the Part A pail packaging using a drill equipped with a mixing paddle.

For more information

Learn more about Dow's full range of High Performance Building solutions by visiting us online at **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**.

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