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 offering 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 thanks to a pourable, self-leveling, 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 offer 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 nonvisible bonding
- Rapid strength buildup 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
	DOWSIL™ 375 Construction & Glass Embedding – Part A – Polyol (as supplied)		
	Color		Cream
ASTM[1] D4889	Viscosity Brookfield, 25°C	mPa.s	17000
ISO[2] 2811	Specific gravity, 20°C	g/cm^3	1.61
	DOWSIL™ 375 Construction & Glass Embedding – Part B – Hardener (as supplied)		
	Color		Brown
ASTM D4889	Viscosity Brookfield, 25°C	mPa.s	160-240
ISO 2811	Specific gravity, 20°C	g/cm^3	1.23
	DOWSIL™ 375 Construction & Glass Embedding (Mixed)		
	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

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow sales office before writing specifications on this product.
[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 data sheet and application guide on **dow.com**.

Approvals

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

Different technical factors influence the design, sizing and depth of embedment of systems and assemblies that utilize DOWSIL™ 375 Construction & Glass Embedding. Users should consult and engage appropriate professional services for any design, specifications, windload requirements, materials, samples, design elements or testing of any design components, including the adequacy or completeness of embedment systems and assemblies. Dow does not offer design or other similar professional services.

Available packaging

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

Part A polyol: 16 kg

Part B hardener: 3 kg

Packaging is designed in such a way 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 is required. As such, pails may not be filled to the top, as they need space to accommodate and facilitate manual mixing.

For more information

Learn more about Dow's full range of DOWSIL™ brand products for high-performance buildings. Rely on our materials innovation, application experience, broad technical services, and global supply capabilities with local support. Learn more 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.**

Dow Building Science website:
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