IB® PMMA CATALYST GEL

Product Description:

IB PMMA Catalyst Gel is a smooth, non-separating reactive agent gel (dibenzoyl peroxide) used to initiate curing when mixed with IB PMMA Liquid Flashing Resins. IB PMMMA Catalyst gel is less hazardous and is easier to use than dry forms of dibenzoyl peroxide catalyst.

Use:

IB PMMA Catalyst Gel is used as the reactive agent with IB PMMA Universal Primer, IB PMMA Liquid Flashing Resin and IB PMMA Liquid Horizontal Resin to form a strong, fast curing monolithic PMMA product.

Packaging:

Packaged in a specially designed vented box containing 30 pre-measured plastic squeeze tube gel packs. Each gel pack is 2.3 ounces (65.2 grams).

Approximate Coverage Rate - 10 kg*			
Smooth Surfaces			**Yield**
Base Coat	Minimum	45 mils	Approximately 40 sq. ft. @ 90 mils
Top Coat	Minimum	45 mils	
Total	Minimum	90 mils	
Rough/Porous Surfaces			**Yield**
Base Coat	Minimum	45 mils	Approximately 40 sq. ft. @ 90 mils
Top Coat	Minimum	45 mils	
Total	Minimum	90 mils	
*Coverage rates may very based on ambient temperature, substrate condition (smoothness and porosity) and application methods used.			

Temperature Guidelines/ Storage & Handling:

Store in a cool and dry location, away from heat, ignition sources, or open flame.

Do not store in direct sunlight, around strong acid, alkaline or oxidizing agents.

Protect from freezing. Optimum chemical storage temperature is 45-75°F (7-23°C). Oxidative combustion can occur if temperatures reach 122F (50C).

Approximate shelf life is 12 months from date on box and remains unmixed and with proper storage parameters. Keep material in a shaded and well-ventilated area if stored at job site. If shade is unavailable, use a white, reflective tarp to cover material in a way that still allows the air to circulate underneath.

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.

Application Conditions:

IB PMMA Liquid Flashing is formulated for all seasons with an ambient temperature range between 20F (-6C) to 100F (37.3C). The ambient temperature at the jobsite will determine the amount (% by weight) of IB PMMA Catalyst Gel to be added. For hot days, it is necessary to provide shade over the substrate and keep the substrate surface temperature below 122F (50C) before and after application. Refer to the IB PMMA Mixing Chart recommended amount (%) of catalyst per weight based on temperature at application.

Mixing & Catalyzing:

When preparing a full container, mix resin for 2-3 minutes before pouring into a second container. IB PMMA has a short pot life, depending on amount of catalyst added and ambient temperature. Take care to only catalyze the amount that can be used during the intended timeframe. Pre-measure and add catalyst to the container of resin. Using a slow-speed agitator or mixing stick, stir mixture for 2 minutes. Following the Mixing Chart, calculate how much catalyst is needed depending on weight and ambient temperature.

Pot Life:

The IB PMMA pot life varies depending on ambient temperature, humidity and amount of catalyst used. Pot life will be reduced at higher ambient temperatures. At 68F (20C) the IB PMMA has a pot life of approximately 12 to 18 minutes. To maximize the pot life, make sure to keep resin mixture cool after catalyst is added.

Cure Time		
The IB PMMA cure time varies based on ambient temperature and humidity.		
Rain Proof	@ 68°F (20°C)	> 30 minutes
Recoat Window	@ 68°F (20°C)	> 45 minutes
Foot Traffic	@ 68°F (20°C)	> 2 hours

Mixing Chart	
1.3% @ 70 - 100°F (21.1 - 37.7°C)	
Resin Qty	**IB PMMA Catalyst Gel Pouches**
5.0 kg	1
10 kg	2
20 kg	4
2.6% @ 50 - 70°F (10 - 21.1°C)	
Resin Qty	**Grams**
5.0 kg	2
10 kg	4
20 kg	8
3.9% @ 35 - 50°F (1.7 - 10°C)	
Resin Qty	**Grams**
5.0 kg	3
10 kg	6
20 kg	12
5.2% @ 20 - 35°F (-6.0 - 1.7°C)	
Resin Qty	**Grams**
5.0 kg	4
10 kg	8
20 kg	16

Handling:

Keep away from heat, ignition sources, or open flame. Vapors are flammable and may form explosive mixture with air. Avoid breathing fumes/vapors. Do not eat, drink or smoke around container or area of application. Avoid contact with skin and eyes. Refer to SDS pertaining to this product prior to use or handling.

Personal Protection Equipment:

To ensure safe use of this product, applicators should wear a long sleeved shirt, long pants and work boots. Butyl rubber or nitrile gloves should be worn when mixing or applying this product. Safety glasses with side shields should be worn at all times. A NIOSH approved respirator must be worn when using product in poorly ventilated areas in danger of exceeding a safe Threshold Limit Value (TLV). Follow protection requirements under 29 CFR 1910.134. The specific type of respirator will depend on the airborne concentrations. Do not use a dust mask or filtered face mask in lieu of recommended face wear.

Surface Preparation:

All substrates must be sound, clean, dry, free of contaminants like dirt, oils, grease, residual coatings, moisture or any condition that would compromise adhesion. Some substrates may require scarification, shot blasting, or grinding to provide a suitable surface.

Substrate	Preparation Requirements
Concrete (existing)	Minimum 2500 psi, free of contaminants, debris, and foreign substances, Grind, shot blast, and/or scarify to remove sharp edges, ridges, and irregular surfaces.
Concrete (new)	New concrete requires a hydration period of 28 days (minimum) per the American Concrete Institute (ACI). New concrete must be free of curing agents, penetrating release agents, or waterproofing materials which can compromise PMMA adhesion.
Masonry	Prepare masonry substrates in the same manner as concrete substrates. Repair compromised or deteriorated masonry and mortar joints prior to PMMA application.
Metal	Metal surfaces should be dry, clean and free of contaminates, debris, rust, or oxidation. Surface should be abraded or sanded to a bright metal finish prior to any cleaning or priming.
PVC Membranes	PVC membrane surfaces should be dry, clean, and free of contaminants, debris, soil, and moisture. Surface should be abraded or sanded to remove the acrylic finish prior to any priming or PMMA application.

Adhesion Test:

Adhesion of the IB PMMA Universal Primer or IB PMMA Liquid Flashing should always be checked. Apply 6” – 12” square of the PMMA and embed a piece of 1” wide IB PMMA Fleece into the PMMA, leaving a minimum 2” tail of the fabric exposed. Allow a minimum or 2 hours for the PMMA to cure and perform a 90° pull test of the fabric tail to test adhesion of the PMMA to the substrate.

Relative Humidity Precautions:

PMMA products are moisture sensitive. Do not apply this product when it is raining or if there is condensation on the substrate or when the dew point is less than 5F within the ambient temperature. Do not apply in conditions when the relative humidity exceeds 90%.

Application:

Properly prepare substrate in accordance with surface preparation guidelines. Ensure that the surface to be flashed is clean, dry and free of contaminants.

- Use masking tape to mask off area to be primed and flashed.
- Etch, abrade, or sand metal surfaces such as stainless steel, copper or aluminum prior to primer application.
- Use IB PMMA Universal Primer TDS for specific product application guidelines.
- Cut and dry fit the reinforcement fleece to accommodate field condition to be flashed accordingly before mixing. Cut reinforcement to terminate ¼-inch from the inside edge of the masking tape so as not to extend the reinforcing fleece beyond the PMMA Liquid Flashing.
- Mix IB PMMA Liquid Flashing Resin and IB PMMA Catalyst according to the desired quantity and coverage. (Refer to Mixing Chart).
- Apply base coat at 45-55 wet mils of the catalyzed PMMA resin to the prepared surfaces.
- Embed the pre-cut IB PMMA Fleece into the freshly applied catalyzed PMMA resin. Laps between separated pieces of fleece for flashing are to be 2-inches. Avoid trapped air bubbles under the reinforcement fleece.
- Apply second coat at 45-55 wet mils of catalyzed resin on the newly applied PMMA fleece reinforcement and saturate the fleece within 15-20 minutes after application of first coat of PMMA.
- NOTE: The IB PMMA Fleece should be completely saturated with no white or bate spots showing. It is important to correct any deficiencies before the catalyzed resin cures. The final thickness should be minimum 90 dry mils.
- Remove masking tape and allow material to dry. Protect the installation temporarily as necessary.

Clean up:

When work is interrupted or completed, clean all tools thoroughly with mineral spirits before resin hardens.

Disposal:

Catalyzed and cured resin may be disposed of in standard landfills. Uncured resin is considered a hazardous material and must be handled as such, in accordance with local, state, and federal regulations.

Disclaimer:

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by in-house and independent third party evaluation for the purpose of classification and/or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product only.

Limited Warranty/Exclusions:

Unless an IB Limited Material Warranty or IB Total System Warranty is expressly issued by and registered with IB Roof Systems in Lieu thereof, this product is covered only by a limited product warranty and the limited product warranty is lieu of any express or implied warranties, including all warranties of merchantability and warranties of fitness for a particular purpose, each of which are specifically disclaimed. The limited product warranty is available at WWW.IBROOF.COM or a copy can be provided by requesting it by via email at WARRANTY@IBROOF.COM or calling 800-426-1626