

Expo Synthetic Stucco



DESCRIPTION:

Expo Synthetic Stucco is a durable, high quality, integrally colored, acrylic copolymer textured finish offered in four unique textures. It is formulated to insure a superior finish that resists water, mold and dirt accumulation.

USES:

Expo Synthetic Stucco is specifically designed to provide texture and color over Portland cement plaster, cast-on-site, pre-cast concrete and concrete masonry units. It is not for use in EIFS.

COVERAGE:

Listed coverages are approximate per coat and depend-upon substrate, details and individual application technique. The finishes are shipped in five-gallon pails.

40 Fine: 160 square ft. • **20/30:** 150 square ft. • **16/20:** 145 square ft. • **Brocade:** 100 square ft.

TEXTURE:

40 Fine: Can be troweled and floated, in a two-coat application, to a flat finish with a fine aggregate texture.

20/30: Can be troweled and floated to a medium sand finish or sprayed for a fine spay finish. Both finishes are two-coat applications.

16/20: Can be troweled and floated to a coarse sand finish with one application or sprayed for a coarse spay finish in a two-coat application.

Brocade: Can be troweled and floated to a classic brocade texture in a one-coat application.

PROPERTIES:

DRYING TIME - Drying of the finish is dependent on the air temperature, relative humidity and coating thickness. Under average drying conditions [21°C (70°F), 55% R.H.], protect work from rain for at least 24 hours.

WATER VAPOR TRANSMISSION - (ASTM E 96) – Expo Synthetic Stucco finishes are permeable to water vapor. Ratings vary from 25-55 Perms depending on the finish.

ACCELERATED WEATHERING - ASTM G 26 Xenon Arc

- Weatherometer, Test Method 1, BH apparatus for 2000 hrs exposure.
- After the exposure, panels received a 10 (no effect) rating for:

<u>Property</u>	<u>ASTM Method</u>
Erosion	ASTM D 622-93
Cracking	ASTM D 661-93
Blistering	ASTM D 714
Rusting	ASTM D 610

SALT SPRAY TESTING - ASTM B 117 for 1000 hours exposure. After salt spray exposure, all panels received a 10 (no effects) rating for:

<u>Property</u>	<u>ASTM Method</u>
Erosion	ASTM D 622-93
Cracking	ASTM D 661-93
Blistering	ASTM D 714
Rusting	ASTM D 610
Chalking	ASTM D 4214; Method B

FLEXIBILITY BY MANDREL BEND - (ASTM D 522 Method B, cylindrical) Results listed below:

<u>Coating Thickness</u>	<u>23°C</u>	<u>0°C</u>
1.9mm	3 in	3 in
1.4mm	2 in	3 in

TABER ABRASION RESISTANCE - ASTM C 4060 Modified

- Use H-22 wheels and 500g weights.
- Cycles to failure values ranged from 3900-9500.

APPLICATION PROCEDURE:

JOB CONDITIONS - Air and surface temperature for application of finishes must be 4°C (40°F) or higher and must remain so for a minimum of 24 hours.

TEMPORARY PROTECTION - Shall be provided at all times until the primer, finish and permanent flashings, sealants, etc. are completed to protect the wall from weather and other damage.

SURFACE PREPARATION:

Surfaces must not be below 4°C (40°F) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.

STUCCO: Finishes may be applied directly to the cured brown coat. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application. Primer may be applied to reduce wall suction.

CONCRETE: Shall have cured a minimum of 28 days prior to application of the finishes. If form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed and small voids filled and primer applied to the surface prior to finish.

MASONRY: The masonry surface, with joints struck flush, shall be "skim coated" to produce a smooth, level surface.

MIXING:

Thoroughly mix Expo Synthetic Stucco finish with a Jiffler-type Mixer until a uniform workable consistency is attained.

APPLICATION:

Using a stainless steel trowel, apply and level a coat to a uniform thickness - approximately 1-1/2 times the largest aggregate. Maintain wet edge for uniformity of color and texture. Then, pull across the rough application coat using a horizontal trowel motion and develop a uniform thickness no greater than the largest aggregate of the material. The textures are achieved by uniform hand motion and/or type of tool used.

CLEAN-UP:

Clean tools with water while the finishes are still wet.

MAINTENANCE:

All Expo Synthetic Stucco finishes are designed to require low maintenance. However, as with all building products, some cleaning may be required.

STORAGE:

Finishes must be stored at 4°C (40°F) or above in tightly sealed containers out of direct sunlight.

CAUTIONS AND LIMITATIONS:

- Finishes must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in12 which is 27°. Maximum length of slope is 305 mm (12 in).
- Expo Synthetic Stucco finishes must never be used alone in an exterior application over any type of gypsum board, foam plastic or other insulation board.
- Finishes shall not be returned into any sealant joint. Instead, a coat of colored primer or paint should be used on any surface to receive sealant. Contact sealant manufacturer for primer requirements.
- Not suitable for application in an EIF system.

TECHNICAL AND FIELD SERVICES:

Available on request.

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