Pyrok Acoustement Plaster 20
Decorative/Acoustical Surfacing Material Product Data

1. Description
Pyrok Acoustement Plaster 20 PCF (air-dried density) gypsum plaster/exfoliated vermiculite spray-applied formulation 100% free from asbestos, mineral fibers, polystyrene and cellulose. Pyrok Acoustement Plaster 20 has excellent adhesion to plaster substrates, and allows substrates to breathe.

2. Uses
Pyrok Acoustement Plaster 20 can be used as a decorative surfacing material, an acoustically attenuating surfacing material or as a combination of these qualities. This material is recommended for interior applications where abuse resistance, but not contact is required.

Typically, Pyrok Acoustement Plaster 20 is specified for use in hotel lobbies, atriums, schools, restaurants, commercial interiors, and any other area requiring decorative plaster and sound absorption qualities.

It can also be used on interior surfaces of walkways, hallways, and rooms where a purely decorative finish is desired.

Pyrok Acoustement Plaster 20 may also be used on suspended ceilings as a combination acoustical finish and decorative material depending on the structural configuration and building use.

Custom integral coloration is available within the limits of iron oxide pigmentation.

3. Packaging
35 lb. Kraft paper/polyethylene-lined bags
55 bags shrink-wrapped pallet (minimum)
1100 bags per truckload

4. Yield
21 Bd. Ft./bag (ideal)

5. Installers
Pyrok, Inc. recommends application of Pyrok Acoustement Plaster 20 be performed only by approved Pyrok applicators. An approved applicator list is available from Pyrok, Inc.

6. Application Procedures Summary
Pyrok Acoustement Plaster 20 may be applied directly to gypsum wallboard, cement board and other clean, sound substrates. Contact Pyrok, Inc. for verification of compatibility with substrate and suitability of primer.

Mix in mechanical type mixer with paddle or ribbon type blades. Use 5-7 gallons of clean, potable water per each 35-pound bag of Pyrok Acoustement Plaster 20. Mix 1 to 2 minutes.

Spray-apply using equipment recommended by Pyrok, Inc. Air supply at the spray nozzle shall be 30-40 pounds per cubic foot.

Application
Brush or roll-apply a liberal coat of Plasterweld/Weld-Crete to the substrate immediately prior to the application of Pyrok Acoustement Plaster 20. A splatter coat of Acoustement Plaster 40 is then applied and allowed to dry overnight. Depending on the final thickness of the Acoustement Plaster 20 system, additional coats of Acoustement Plaster 40 may be required. Desired thickness of Pyrok Acoustement Plaster 20 may be applied in coats up to 1/8 inch to 1/4 inch thick per application. 2-3 days of drying time will be required after 5/8-inch thickness has been applied and additional thickness is required. Previous coat shall be allowed to set. Where thickness of the Acoustement Plaster 20 system is to exceed 1 1/8 inch, or existing paint is not removed, chicken wire or metal lath must be fastened to the substrate. During application and drying of the Acoustement Plaster 20, temperatures should be maintained between 50 - 95 degrees Fahrenheit. The humidity should be maintained between 45% - 75% for proper application and drying.

Top Coating/Curing
Pyrok Acoustement Plaster 20 may be supplied in several integral colors. Consult Pyrok, Inc. for further information regarding suitable top coating and curing compounds.

Patching or Repair
Contact Pyrok, Inc. or your construction representative for patching or repair procedures.

Cleaning
Wet Pyrok Acoustement Plaster 20 may be removed by brushing or with water. Dry Pyrok Acoustement Plaster 20 may require scraping or chipping to remove.

Pyrok Acoustement Plaster 20 may be vacuum brush cleaned after set.

Storage and Shelf Life
Store Pyrok Acoustement Plaster off the ground in unopened, original packages and kept dry. Pyrok Acoustement Plaster 20, kept dry, has one (1) year shelf life.

Warranty
Manufacturer warrants the material to be supplied, agreeing to replace that which has cracked, flaked, dusted excessively, peeled or fallen from substrate, or otherwise deteriorated to a condition where it would not perform effectively as intended for fire protection and sound absorbent purposes; due to defective materials and not due to abuse, improper maintenance, unforeseeable ambient exposures or other causes beyond anticipated conditions by manufacturer. The warranty period will be 10 years from date of installation.

Manufacturer's liability under any expressed or implied warranty is limited solely to replacement of Pyrok products proved defective and does not include labor or other consequential damages. The suitability of the product for any intended use shall be solely up to the user.

The express warranties set forth herein are in lieu of all other warranties, express or implied, including without limitation, any warranties or merchantability or fitness for a particular purpose. In no event shall manufacturer be liable for any direct, indirect, incidental or consequential damages resulting from any defect in the material even if manufacturer has advised for the possibility of such damages.

Physical Performance Properties

Property	Test Method/Authority	Value
Asbestos Content	EPA 400/4M-82-020	No Asbestos No Mineral Fiber
Compressive Strength	ASTM E 761	20 PSI
Density	Per ASTM E 605	22 PCF (Avg.)
Sound Absorption	ASTM C 423	0.50 NRC @ 1/2 “ 0.65 NRC @ 1”
Surface Burning	ASTM E 84	0 Flame Spread 0 Smoke Developed
Toxicity	University of Pittsburgh Toxicity Test	LC (50) >300 Grams
Combustibility	ASTM E 136	Non-Combustible
Bond Strength	ASTM E 736	670 lbs./sq. ft.

Sound absorption coefficient on solid backing with no air gap ASTM C 423

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Absorption Coefficient @ 1/2”	0.11	0.30	0.36	0.46	0.73	0.99	0.50
Absorption Coefficient @ 1”	0.15	0.39	0.61	0.75	0.85	1.00	0.65
Absorption Coefficient @ 1 1/4”	0.32	0.63	0.93	0.91	0.63	0.12	0.80