

Acoustement 40

Decorative/Acoustical Surfacing Material Product Data

1. Description

Pyrok Acoustement 40 is a nominal 41 PCF (air-dried density) Portland cement/exfoliated vermiculite spray-applied formulation 100% free from asbestos and mineral fibers, polystyrene, and cellulose. Pyrok Acoustement 40 is highly abuse resistant (impact, abrasion, moisture, hostile industrial environments), has excellent adhesion to a variety of substrates, allows substrates to breath and be cleaned by a variety o methods.

2. Uses

Pyrok Acoustement 40 can be used as a decorative surfacing material or as a combination of these qualities even in conjunction as a fireproofing material.

This material is recommended for exterior exposures where resistance to environmental pollution, rain, corrosion, and spalling is required. It may be used in interior exposures where superior abuse resistance is required.

Typically Pyrok Acoustement 40 is specified for transportation facilities, correctional projects, lobbies, atriums, tunnels, natatoriums, gymnasiums, manufacturing facilities, contact wall areas, and any other area requiring high abuse resistance 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 40 may also be used on ceilings as a combination acoustical finish and fireproofing material.

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

3. Packaging

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

4. Yield

17 Bd. ft./bag (ideal)

5. Applications

Pyrok, Inc. recommends application of Pyrok Acoustement 40 be performed only by approved Pyrok applicators. An approved applicator list is available from Pyrok, Inc.

6. Application procedures summary

Pyrok Acoustement 40 may be applied directly to clean, bare steel, clean galvanized steel or a wide variety of unpainted concrete, cement board and other clean, sound substrates. Some substrates will require metal lath. Contact Pyrok, Inc. for verification of compatibility with substrate, suitability of primer and potential requirement of expanded metal lath.

Mix in mechanical type mixer with paddle or ribbon type blades. Use 4-5 gallons of clean, potable water per each 35-pound bag of Pyrok Acoustement 40. Mix 1 to 3 minutes.

Spray-apply using equipment recommended by Pyrok, Inc. Air supply at the spray nozzle shall be a minimum of 40 pounds per square inch. Wet density at the nozzle shall be 70-85 pounds per cubic foot.

Application

Brush or roll-apply a liberal coat of Weldcrete to substrate immediately prior to application of Acoustement 40. Apply a splatter coat covering 60% to 80% of the substrate surface. Allow splatter coat to cure overnight. Successive coats of Pyrok Acoustement 40 shall not exceed 1/4 inch thick per application. Thicknesses that exceed 2 1/8 inches may require metal lath. Contact Pyrok, Inc. to determine if metal lath is required.

Topcoating/curing

Pyrok Acoustement 40 may be supplied in several integral colors or may be topcoated for more pleasing aesthetic finish or for curing. Consult Pyrok, Inc. for further information regarding suitable topcoating and curing compounds.

Patching or repair

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

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Cleaning

Wet Pyrok Acoustement 40 may be removed by brushing or with water. Dry Pyrok Acoustement 40 may require scraping or chipping to remove.

Pyrok Acoustement 40 may be steam cleaned or pressure washed after full cure (minimum 28 days).

Storage and shelf life

Store Pyrok Acoustement 40 off the ground in unopened, original packages and keep dry. Pyrok Acoustement 40, kept dry, has a five (5) 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, or improper maintenance, unforeseeable ambient exposures or other causes beyond anticipate 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 been advised of the possibility of such damages.

Physical performance properties

Property	Test method	Value
Asbestos Content	EPA 400/4M-82-020	No Asbestos No Mineral Fiber
Bond Strength	ASTM E 736	5000 PSF
Compressive Strength	ASTM E 761	300 PSI
Density	ASTM E 605	41 PCF (Avg)
Sound Absorption	ASTM C 423	0.60 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

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

Frequency (HZ)	125	250	500	1000	2000	4000	NRC
Absorption Coefficient @ 3/8"	0.17	0.20	0.29	0.34	0.56	1.00	0.35
Absorption Coefficient @ 1/2"	0.01	0.20	0.43	0.68	0.75	0.80	0.50
Absorption Coefficient @ 1"	0.18	0.35	0.64	0.73	0.73	0.77	0.60
Absorption Coefficient @ 1 1/2"	0.36	0.51	0.64	0.74	0.84	0.91	0.70
Absorption Coefficient @ 1 5/8"	0.24	0.59	0.74	0.81	0.91	0.97	0.75