

PRODUCT DATA

9 09 97 26 Coatings for Concrete and Masonry

SUPER QUICKSEAL AND INTERMIX SYSTEM

Cement-based, dry polymer-modified smooth coating

Description

Super Quickseal is a Portland-cement-based, dry-polymer-modified smooth coating. Use it to provide a smooth, weatherproof finish. Mix it with Thorosheen® to form the Intermix block filler.

Yield

See page 3 for charts.

Packaging

Super Quickseal:
50 lb (22.7 kg) bags
Thorosheen® Tint Base:
5 gallon (18.9 L) pails

Color

White and pearl gray.

Shelf Life

1 year when properly stored.

Storage

Transport and store in unopened containers protected from moisture and dampness. Store in unopened containers in a cool, clean, dry area between 45 and 90° F (7 and 32° C). Do not allow Thorosheen® to freeze.

Where to Use

APPLICATION

Features

- Heavy bodied
- Excellent hiding power
- Excellent resistance to impact damage and abrasion
- Excellent UV resistance
- Weather resistant
- Breathable
- Resistant to mildew and fungus

Benefits

- Provides a smooth, durable finish; mixed with Thorosheen®, fills pores in masonry substrates
- Covers surface color variations and fills surface textures
- Suitable for high-use areas
- Provides long-term durability
- Protects from wind-driven rain and dampness
- Allows water vapor to escape from the structure; prevents peeling and blistering
- Suitable for humid climates and conditions

- As a block filler when modified with Thorosheen® (see Intermix section)
- As a leveling coat over Thoroseal® and Thoroseal® Plaster Mix
- As a base coat under other any Thoro® acrylic coatings

LOCATION

- Vertical, overhead, or nontraffic-bearing horizontal
- Exterior
- Above grade

SUBSTRATE

- Any mineral substrate such as reinforced concrete, concrete masonry units, bricks, distressed natural stones, Portland cement plaster, stucco, gunite, and shotcrete

How to Apply Super Quickseal

Surface Preparation

All surfaces must be clean and free of existing paint

films, form oils, form-release agents, curing compounds, or any other contaminants that may interfere with proper bonding.

CONCRETE

1. A properly prepared concrete surface will have the open texture of medium 60 – 80 grit silica sandpaper.
2. Remove all form tie wires, appurtenances, form fins, unbonded or loosely bonded laitance. Repair all small surface spalls, voids or honeycombs using the appropriate Thoro® concrete repair mortar.

MASONRY

1. Remove all loose, unbonded, soft mortar when preparing brick, natural stone, or concrete masonry units.
2. Repoint with Dryjoint® (see Form No.1019075) or D-J® Grouting Mortar (see Form No.1019074) modified with Acryl 60® (see Form No. 1019073).
3. Some soft friable, stratified stones may require extensive surface removal and possibly patching before coating.



Technical Data

Composition

Super Quickseal contains sand, cement, dry polymer, and proprietary additives.

Test Data

SUPER QUICKSEAL AND THOROSHEEN® MIXED

PROPERTY	RESULTS	TEST METHODS
VOC content, lbs/gal (g/L)		ASTM D 2832
Super Quickseal	0	
Intermix	0.15 (18)	

SUPER QUICKSEAL MIXED WITH WATER ONLY

PROPERTY	RESULTS	TEST METHODS
Compressive strength, psi (MPa)		ASTM C 109
28 days	7,859 (55.0)	
Flexural strength, psi (MPa)		ASTM C 348
28 days	1,419 (9.9)	
Tensile strength, psi (MPa)		ASTM C 190
28 days	403 (2.8)	
Adhesion, psi (MPa)		ASTM D 4541
28 days	350 (2.4)	
Resistance to wind-driven rain, hrs	8 – excellent	TT-C-555B
Water-vapor permeance, perms	37	ASTM E 96
Artificial weathering and UV resistance, Xenon Arc, Type B; 5,000 hrs	No defects	ASTM G 26
Freeze/thaw resistance, 200 cycles	No change	DOT Method A and B
Sand abrasion resistance, 3,000 L	Passed	Fed. Spec. TT-P-141b
Hardness	Passed	Fed. Spec. TT-P-0035 para 4.4.9
Impact resistance	Meets requirement – no chipping	Fed. Spec. TT-P-0035
Fungus resistance, after 21 days	Meets requirement – no growth	ASTM D 3273
Surface burning characteristics		ASTM E 84
Flame spread	0	
Smoke	5	

Test results are averages obtained under laboratory conditions at 70° F (21° C) and 50% rh. Reasonable variations can be expected.

4. A bond test may be required to confirm sufficient surface tensile strength.

PLASTER AND STUCCO

1. Remove all disbonded plaster and patch with Thoroseal® Plaster Mix (see Form No. 1019908)

or Thoro® Stucco, modified with Acryl 60® (see Form No. 1019073).

2. Allow new plaster or stucco to cure a minimum of 7 days at 70° F (21° C) and 50% relative humidity before applying Super Quickseal.

GUNITE AND SHOTCRETE

New gunite or shotcrete must be fully cured and free of all rebound or poorly bonded aggregates. Existing

gunite or shotcrete must be completely cleaned and dampened.

Mixing

1. Condition the powder and water to a temperature

Recommended Coverage (for all methods of application)*

SUPER QUICKSEAL

SUBSTRATE	FT ² / 50 LB BAG (M ² / 22.7 KG)	FT ² / 40 LB PAIL (M ² / 18.1 KG)
CMU	300 – 600 (27.9 – 55.7)	240 – 480 (22.3 – 44.6)
Thorseal®/Acryl 60®	500 – 600 (46.5 – 55.7)	280 – 480 (26.0 – 44.6)
Precast or Cast-in-Place Concrete	500 – 600 (46.5 – 55.7)	280 – 480 (26.0 – 44.6)

INTERMIX

SUBSTRATE	FT ² / 50 LB BAG (M ² / 22.7 KG)	FT ² / 40 LB PAIL (M ² / 18.1 KG)
CMU	350 – 750 (32.5 – 69.7)	280 – 600 (26.0 – 55.7)
Thorseal®/Acryl 60®	600 – 750 (55.7 – 69.7)	480 – 600 (44.6 – 55.7)
Precast or Cast-in-Place Concrete	600 – 750 (55.7 – 69.7)	480 – 600 (44.6 – 55.7)

*Coverage will vary depending upon absorbency and texture of the substrate.

between 40 to 70° F (4 to 21° C) during storage, mixing and application.

- For best results, mechanically mix at slow speed with an appropriately sized drill (1/2" or larger) and mixing paddle.
- Add up to 8 qts (7.6 L) of water per 50 lb (22.7 kg) bag of powder.
- Slowly add the powder while agitating the water to achieve a uniform, lump-free creamy consistency.
- After mixing, let the coating rest for approximately 10 minutes, then re-agitate to smooth consistency.
- At higher temperatures, more water may be required. Do not exceed 10 quarts per 50 lb bag (9.46 L/22.7 kg).

Application

- Dampen the substrate by misting with water. Allow to evaporate until all liquid water has left the surface.
- Avoid applications to hot decks or south-facing walls in midday sun.
- Using a tampico or nylon-fiber brush or spray equipment, apply the first coat and brush or broom it into the surface. If aesthetics are important final brush in one direction.
- Apply more material and backbrush to smooth it out.

- Allow to cure for at least 24 hours.
- Apply the second coat.
- On concrete, brick, or stone masonry allow first coat to cure for 5 – 7 days to reduce mortar-joint read through. Avoid thick buildups or sags when applying. Always work to a wet edge.
- Allow 3 – 5 days cure before topcoating.
- Care should be taken to insure that the material is ventilated in conditions of high humidity. Air movement is critical for cure.

How to Apply Intermix

Surface Preparation

All surfaces must be clean and free of existing paint films, form oils, form-release agents, curing compounds, or any other contaminants that may interfere with proper bonding.

CONCRETE

- A properly prepared concrete surface will have the open texture of medium 60 – 80 grit silica sandpaper.
- Remove all form tie wires, form fins, and unbonded or loosely bonded laitance. Repair all small surface spalls, voids, or honeycombs using the appropriate Thoro® concrete repair mortar.

MASONRY

- Remove all loose, unbonded, soft mortar when preparing brick, natural stone, or concrete masonry units.
- Repoint.
- Some soft, friable, stratified stones may require extensive surface removal and possibly patching before coating.
- A bond test may be required to confirm sufficient surface tensile strength.

Mixing

- Add 12 – 16 qts (11.3 – 15.0 L) of water per 50 lb (22.7 kg) bag of powder. Use appropriate mixing vessel since the volume of this mix will not fit into a 5 gallon bucket.
- Slowly add the powder while agitating water with a slow speed drill.
- Mix until all powder is fully wetted out to achieve a uniform, lump-free consistency.
- Allow to rest for approximately 10 minutes.
- Remix or retemper adding 1 gallon (3.8 L) of Thorosheen® Medium Base.
- Mix until a full-bodied consistency is achieved.

Application

1. Dampen the substrate by misting with water to achieve a surface saturated-dry (SSD) condition. Allow to evaporate until all liquid water has left the surface.
2. Whenever possible avoid hot wall application such as south-facing walls at mid afternoon.
3. Using a tampico or nylon-fiber brush or spray equipment, apply the material and brush or broom it into the surface, forcing it into the pores.
4. Apply more material to completely fill all pores, leaving no pinholes, leveling the material to provide uniform texture and film thickness. Backroll in one direction using a roller with a short nap. Uneven texture consisting of lap-marks and brush strokes will read through the topcoat.
5. Allow to cure 3 – 5 days before topcoating.

Pot Life

Times assure 70° F (21° C) and 50% relative humidity.

Super Quickseal: 30 – 60 minutes

Intermix: 45 – 60 minutes

At higher temperatures, pot life can be significantly less.

Curing

In hot, dry, windy conditions water misting may be needed. Water misting can cause significant color variations. Topcoating is then recommended.

Clean Up

Clean all tools and equipment immediately with water. Cured material can be removed by mechanical means only.

For Best Performance

- Do not apply when temperatures are at or below 40° F (4° C) or are expected to fall below 40° F (4° C) within 24 hours after application.
- Do not apply to frozen or frost-covered surfaces.
- Avoid applications to hot surfaces in direct sunlight.
- Do not apply in the rain or if rain is expected before coating is fully dried.
- Do not apply to wet or water-saturated surfaces

when ambient temperatures are low and curing conditions are damp, as efflorescence can develop.

- Do not use if exposure to soft water, with a hardness below 140 ppm is expected; or to water with a pH below 7; or to seawater without an appropriate, protective topcoat.
- Roofs and cap flashing should be installed before applying Intermix on new construction.
- Do not apply over dynamic cracks or moving joints.
- Color uniformity is difficult to achieve with any cementitious coating that undergoes hydration. For best results use a topcoat of Thorocoat®, Thorosheen® or Thorolastic® (exterior only).
- Before specifying Super Quickseal as a leveling decorative coat for water-retaining structures, conduct tests to determine water quality. Super Quickseal is not intended for continuous contact with acid or sulfate-containing water. Very soft water will have an adverse effect on Super Quickseal.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

THORO® SUPER QUICKSEAL

Warning!

Thoro® Super Quickseal contains Portland cement, crystalline quartz silica, calcium hydroxide, anhydrite, limestone, iron oxide, calcium oxide and magnesium oxide.

Risks

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause irritation. Contains small amount of free respirable quartz, which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0 lbs/gal or 0 g/L, less water and exempt solvents

NOTE: Intermix is composed of a mixed combination of Super Quickseal and Thorosheen®. For regulatory information, please consult individual, product data sheets or product labels for these products.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

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