



Teifs Scratch & Brown WaterMaster Wall Assembly Specification

CSI SECTION 09 24 00

CSI SECTION 09 24 00 – PORTLAND CEMENT PLASTER

(Teifs® Fiber Reinforced Stucco with Enhanced Water Resistive Barrier and Optional Krak-Shield)

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Supply and Installation of TeifsScratch and Brown WaterMaster™ Stucco Assemblies

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 04 20 00 - Unit Masonry
- C. Section 06 16 00 - Sheathing
- D. Section 07 25 00 - Weather Barriers
- E. Section 07 62 00 - Sheet Metal Flashing and Trim
- F. Section 07 90 00 - Joint Protection
- G. Section 08 50 00 - Windows
- H. Section 09 21 16 - Gypsum Board Assemblies

1.3 REFERENCES

- A. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar
- B. ASTM C578 - Specification for Preformed, Cellular Polystyrene Thermal Insulation
- C. ASTM C847 - Standard Specification for Metal Lath
- D. ASTM C897 - Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plaster
- E. ASTM C926 - Standard Specification for Application of Portland Cement-Based Plaster
- F. ASTM C933 - Standard Specification for Welded Wire Lath
- G. ASTM C1032 - Standard Specification for Woven Wire Plaster Base
- H. ASTM C1063 - Standard Specification for Installation of Lathing and Furring for Portland Cement Based Plaster
- I. ASTM C1177 - Specification for Glass Mat Gypsum for Use as Sheathing
- J. ASTM C1278 - Specification for Fiber-Reinforced Gypsum Panel
- K. ASTM C1396 - Standard Specification for Gypsum Board
- L. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials
- M. ASTM E119 - Method for Fire Tests of Building Construction and Materials
- N. ASTM E330 - Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static air Pressure Difference
- O. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
- P. ICC Acceptance Criteria 212 - Acceptance Criteria For Water-Resistive Coatings Used As Water-Resistive Barriers Over Exterior Sheathing
- Q. ICC Acceptance Criteria 219 - Acceptance Criteria for Exterior Insulation And Finish Systems

1.4 ASSEMBLY DESCRIPTION

- A. TeifsScratch and Brown WaterMaster™ Stucco Assembly: Parex USA Weatherseal (joint reinforcement), water resistive barrier sheet, wire fabric or metal lath, TeifsScratch and Brown ¾ in (19 mm) and either a Teifs acrylic or elastomeric based finish coat.

-OR-

- A. TeifsScratch and Brown WaterMaster Krak-Shield™ Stucco Assembly: Parex USA Weathersea I (with joint reinforcement), water resistive barrier sheet, wire fabric or metal lath, TeifsScratch and Brown ¾ in (19 mm), Parex USA fiberglass reinforcing mesh embedded in Parex USA Stucco Level Coat, and either a Teifs acrylic or elastomeric based finish coat.

1.5 SUBMITTALS

- A. General: Submit Samples, Water resistive barrier coating Evaluation Reports and manufacturers' product datasheets in accordance with Division 1 General Requirements Submittal Section.
- B. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture used on project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available, at job site, approved samples.
- C. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility for Water Resistive Barrier coating, Stucco Base coat, finish coat and optional Primer, level coat and reinforcing mesh as specified.

1.6 QUALITY ASSURANCE

- A. Qualifications:
1. Manufacturer: Shall have marketed stucco assemblies in United States for at least five years and shall have completed projects of same general scope and complexity.
 2. Applicator: Shall be experienced and competent in installation of stucco materials, and shall provide evidence of a minimum of 5 years experience in work similar to that required by this section.
- B. TeifsScratch and Brown WaterMaster Stucco Functional Criteria:
1. General: Stucco application shall be to vertical substrates or to substrates sloped for positive drainage. Substrates sloped for drainage shall have additional protection from weather exposure that might be harmful to coating performance.
 2. Performance Requirements of Water Resistive Barrier Coating

Weatherseal Testing	Method	ICC and ASTM E2570 Criteria	Results
Accelerated Weathering	AC 212	25 Cycles followed by Hydrostatic Pressure Test: No water penetration on the plane of the exterior facing side of the substrate.	Pass: no water penetration
Air Infiltration	ASTM E2178	Calculated flow Rate at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O) = < 0.02 L/m ² *s (< 0.004 cfm/ft ²)	< .00001 L/m ² *s (0.00001 cfm/ft ²) at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O)
Air Leakage	ASTM E283	No Criteria	< 0.004 cfm/ft ²
Elongation	ASTM D412	No Criteria	360%
Flexibility	ASTM D522	No Criteria	No Cracking at ¼ in (3 mm)
Freeze-Thaw Resistance	ASTM E 2485	10 Cycles	Pass – No Deleterious Effects
Hydrostatic Pressure Test	AATCC 127 (Water Column)	Resist 21.6 in (55 cm) water for 5 hours before and after aging	Pass: no water penetration
Nail Seal ability, Head of Water	ASTM D1970	No Criteria	Pass 5 inches of water
Racking	ASTM E72	Deflection at ¼ in (3.2 mm)	Pass -No cracking at field, joints or flashing connection
Restrained Environmental	ICC ES AC 212 / ASTM E2570	5 Cycles of wetting and drying	Pass -No cracking at field, joints or flashing connection
Structural Loading	ASTM E1233 Procedure A	10 Cycles @ 80% design load	Pass -No cracking at field, joints or flashing connection
Surface Burning Characteristics	ASTM E84	Flame Spread <25 Smoke Developed <450	Flame Spread =0 Smoke Developed =0
Tensile Bond Strength	ASTM E 2134/ ASTM C 297	Minimum 15 psi (104 kPa)	Pass all listed substrates and flashing materials
Water Resistance	ASTM D 2247	14 Days	Pass – No Deleterious Effects.

Weatherseal Testing	Method	ICC and ASTM E2570 Criteria	Results
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	No Water Penetration
Water vapor transmission	ASTM E96 Procedure B	Vapor Permeable	12. perms
Weathering	ICC ES AC 212 / ASTM E2570	210 hours of UV Exposure, 25 cycles of accelerated weathering, 21.6 in (549 mm) water column for 5 hours	Pass
Wind Driven Rain	F.S. TT-C-555B	No Criteria	Pass
VOC	EPA Reference Test Method 24	US EPA, South Coast AQMD and Greenseal Standard	10 g/L
Regional Harvest		LEED MRc 5.1	100% at all facilities

3. Performance Requirements of Coatings applied to Expanded polystyrene features: Must comply with ASTM E 2568 or ICC Acceptance Criteria AC 219 for EIFS.

C. Substrate Conditions:

1. Substrate materials and construction shall conform to the the building code having jurisdiction
2. Substrates shall be sound, dry and free of dust, dirt, laitance, efflorescence and other harmful contaminants.
3. Substrate Dimensional Tolerances: Flat with ¼ in (6.4 mm) within any 4 ft (1220 mm) radius.
4. Maximum deflection of substrate system under positive or negative design loads shall not exceed L/360 of span.

D. Expansion and Control Joints: Continuous expansion and control joints shall be installed at locations in accordance with ASTM C1063 and ASTM C926.

1. Substrate movement, and expansion and contraction of TeifsScratch and Brown WaterMaster Stucco Assembly and adjacent materials shall be taken into account in design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficients of expansion of materials, joint width to depth ratios, and other material factors. Minimum width of expansion joints shall be as specified by the designer or shown on the project drawings.
2. In accordance with ASTM C1063, expansion or control joints shall be installed in walls not more than 144 ft² (13.4 m²) in area, and not more than 100 ft² (9.3 m²) in area for all non-vertical applications. The distance between joints shall not exceed 18 ft (5.5 m) in either direction or a length-to-width ratio of 2-½ to 1.
3. For direct appliacion to concrete or masonry, stucco joints are required only at control/expansion joints in the underlying concrete or masonry.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver TeifsScratch and Brown WaterMaster Stucco Assembly products in original packaging with manufacturer's identification.
- B. Storage: Store TeifsScratch and Brown WaterMaster Stucco Assembly products in a dry location, out of direct sunlight, off the ground, and protected from moisture.

1.8 SITE / ENVIRONMENTAL CONDITIONS

- A. Substrate Temperature: Do not apply TeifsScratch and Brown WaterMaster Stucco Assembly products to substrates whose temperature are below 40° F (4° C) or contain frost or ice.
- B. Inclement Weather: Do not apply TeifsScratch and Brown WaterMaster Stucco Base during inclement weather, unless appropriate protection is employed.
- C. Sunlight Exposure: Avoid, when possible, installation of the TeifsScratch and Brown WaterMaster in direct sunlight. Application of Teifs Finishes in direct sunlight in hot weather may adversely affect aesthetics.
- D. Do not apply stucco base coats aor finishes if ambient temperature falls below 40 °F (4 °C) within 24 hours of application. Protect stucco from uneven and excessive evaporation during dry weather and strong blasts of dry air.

- E. Prior to installation, the wall shall be inspected for surface contamination, or other conditions that may adversely affect the performance of the TeifsScratch and Brown WaterMaster Stucco Assembly, and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate TeifsScratch and Brown WaterMaster Stucco Assembly installation with other construction operations.

1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide Teifs Standard Limited Stucco Warranty

EDITOR NOTE: SEE TEIFS'S WARRANTY SCHEDULE FOR AVAILABLE TEIFSSCRATCH AND BROWN WATERMASTER ASSEMBLY WARRANTIES.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Parex USA, Inc., 4125 E. La Palma Ave., Suite 250, Anaheim, CA 92807
- B. Components: Obtain components manufactured by Parex USA of TeifsScratch and Brown WaterMaster Stucco Assembly from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project.

2.2 MATERIALS

- A. TeifsScratch and Brown Stucco Base ($\frac{3}{8}$ in – $\frac{1}{2}$ in)
 - a. TeifsScratch and Brown™: Fiber-reinforced factory blended portland cement, hydrated lime and proprietary ingredients, cement scratch and brown coat conforming to ASTM C926.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE OPTIONAL TEIFSADMIX AND BONDING AGENT FOR ENHANCED PERFORMANCE

- B. Teifs Admix & Bonding Agent: 100% acrylic emulsion additive for portland cement based products, to enhance curing, adhesion, freeze-thaw resistance and workability and as an acrylic polymer bonding agent.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE TEIFSSCRATCH AND BROWN KRAK-SHEILD STUCCO ASSEMBLY (D.) FOR ENHANCED CRACK RESISTANCE PERFORMANCE.

- C. Expanded Polystyrene Features over TeifsScratch and Brown Stucco

1. Adhesive and Base Coat

- a. TeifsBase: 100% acrylic polymer base, requiring the addition of portland cement.
- b. TeifsBase DB: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.

2. Insulation Board

- a. Produced and labeled under a third party quality program as required by applicable building code; and produced by a manufacturer approved by Parex USA.
- b. Shall conform to ASTM C578, ASTM E 2430 Type I and the Parex USA specification for Molded Expanded Polystyrene Insulation board.

3. Reinforcing Mesh

- a. TeifsMesh: Weight 4.8 oz/yd² (162 g/m²) reinforcing mesh.
- b. TeifsMesh 12: Weight 12.0 oz/yd² (405 g/m²) reinforcing mesh.
- c. TeifsBakrap: Reinforcing mesh used for backwrapping and details.

- D. Teifs Leveling and Reinforcing Coat (KraK-Shield Stucco Assembly):

- 1. Teifs Stucco Level Coat™: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
- 2. TeifsBase: 100% acrylic polymer base, requiring the addition of portland cement.

3. TeifsBase DB: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
4. Teifs Reinforcing Meshes:
 - a. TeifsMesh: Weight 4.8 oz/yd² (162 g/m²) reinforcing mesh.
 - b. TeifsMesh12: Weight 12 oz/yd² (407 g/m²) reinforcing mesh..

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE TEIFS PRIMER FOR ENHANCED PERFORMANCE AND WARRANTY.

- E. Parex USA WeatherDry: Waterproof base coat, 100% acrylic polymer base, requiring the addition of Portland cement.
- F. Teifs Primers:
 1. TeifsSheild Alkali Resistant Primer: 100% acrylic based coating to prepare surfaces for Teifs finishes.
 2. Teifs Sanded Primer: 100% acrylic based coating to prepare surface for Teifs finishes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE CHOOSE TEIFS OPTIMUM OR E-LASTIC FINISH FOR DIFFERENT LEVELS OF ENHANCED WARRANTY.

- G. Teifs Finish:
 1. TeifsLastic® Finish: Factory blended, 100 % acrylic polymer based elastomeric textured finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer
 - OR-
 1. Teifs Flex Finish™: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer
 - OR-
 1. Teifs DPR Finish™: Factory blended, 100% acrylic polymer based finish, integrally colored.
 - a. Finish type, texture and color as selected by Project Designer.

2.3 RELATED MATERIALS AND ACCESSORIES

- A. General: TeifsScratch and Brown WaterMaster and its related materials shall conform ASTM C926, this specification and Teifs Product Data Sheets.
- B. Substrate Materials:
 1. Gypsum Sheathing: Minimum ½ in (13 mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C79 or ASTM C1177.
 2. Cement Board Sheathing, Minimum ½ in thick, conforming to ASTM C1186.
 3. Fiberboard: Minimum ½ in (13 mm) thick fiberboard complying with ANSI/AHA A194.1 as a regular density sheathing.
 4. Plywood: Minimum ⁵/₁₆ in (8 mm) thick exterior grade or Exposure I plywood for studs spaced 16 in (406 mm) o.c. and ³/₈ in (9 mm) thick exterior type plywood minimum for studs spaced 24 in (610 mm) o.c. Plywood shall comply be exterior grade or Exposure 1 and comply with DOC PS-1
 5. Oriented Strand Board (OSB): ⁷/₁₆ - ½ in Wall-16 or Wall-24, approved by the APA, TECO, or PSI/PTL. Stamped as Exposure 1 or Exterior Sheathing with a PS2 or PRP-108 rating. The system is qualified for application to OSB (oriented strand board) sheathing only in areas shown in the Parex USA Acceptable Substrates and areas of use Technical Bulletin.
 6. Concrete Masonry Construction: Painted (coated) and non-painted (uncoated). Shall be in conformance with the building code.
 7. Other Approved by Parex USA in writing prior to the project.
- C. Water-Resistive Barrier:
 1. Parex USA Weatherseal™ Spray & Roll-on water resistive barrier coating. Two coats are required on plywood and OSB
 2. Parex USA Weatherseal™ Trowel-On water resistive barrier coating. Two coats may be required on plywood and OSB

3. Parex USA 396 Sheathing Tape: Non-woven synthetic fiber tape to reinforce Weatherseal water-resistant barrier at sheathing board joints, into rough openings and other terminations into dissimilar materials available in 4 in, 6 in and 9 in widths
 4. Parex USA Weatherseal is covered by an intervening material such as building paper
 5. Over concrete and Masonry: Parex USA WeatherDry Waterproof base coat is applied over the Armourwall 300 Stucco Basecoat Stucco Materials:
- D. Continuous Insulation
1. Expanded (EPS), or Extruded (XPS), having a nominal density of 1 lb/ft³ (14 kg/m³).
 2. Polyisocyanurate Foam plastic complying with ASTM C1289 as Type II board with a nominal density of 2 pcf (32 kg/m³), thickness 1 in to 1½ inches.

EDITOR NOTE: THE SELECTION OF AN APPROPRIATE TYPE OF MATERIAL FOR ACCESSORIES SHALL BE DETERMINED BY APPLICABLE SURROUNDING CLIMATIC AND ENVIRONMENTAL CONDITIONS SPECIFIC TO THE PROJECT LOCATION, SUCH AS SALT AIR, INDUSTRIAL POLLUTION, HIGH MOISTURE, OR HUMIDITY.

- E. Lath and Accessories: Conform to ASTM C847, ASTM C933, ASTM C1032, ASTM C1063 and Appendix
1. Accessories: Manufacturer's standard steel products with minimum G60 galvanizing unless otherwise indicated as rigid polyvinyl chloride (PVC plastic) or zinc alloy

EDITOR NOTE: SELECT LATH TYPE AND WEIGHT.

2. Metal Plaster Bases: Minimum 17 gauge self-furred stucco netting, minimum 2.5 lb/yd² (1.4 kg/m²) or 3.4 lb/yd² (1.8 kg/m²) expanded metal diamond lath, or welded wire lath in accordance with applicable codes and standards.

Weep Screeds: Foundation weep screed with minimum 3-½ inch vertical attachment flange
 EDITOR NOTE: THE SELECTION AND USE OF AN APPROPRIATE TYPE OF SEALANT SHALL BE DETERMINED BY APPLICABLE SURROUNDING CLIMATIC AND ENVIRONMENTAL CONDITIONS SPECIFIC TO THE PROJECT LOCATION.

- F. Seals, Sealants and Bond Breakers: Sealants shall conform to ASTM C920, Grade NS, Class 25, Use NT. Backer rod shall be closed-cell polyethylene foam.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify project site conditions under provisions of Section 01 00 00.
- B. Compliance: Comply with manufacturer's instructions for installation of **TeifsScratch** and **Brown WaterMaster Stucco Assembly**.

REMINDER: TEIFFSSCRATCH AND BROWN WATERMASTER STUCCO ASSEMBLY MUST INSTALLED OVER A CODE COMPLYING WATER RESISTIVE BARRIER OR SOLID SURFACE OR MASONRY OR CONCRTE. WALL PERFORMANCE IS DEPENDENT UPON, AMONG OTHER FACTORS, PROPER FLASHING AND JOINT SEALING, AND ATTENTION TO PROPER FLASHING AND JOINT SEALANT DETAILS INDICATED ON DRAWINGS.

- C. Substrate Examination: Examine prior to TeifsScratch and Brown Stucco Base installation as follows:
 1. Substrate shall be of a type approved by Parex USA. Plywood and OSB substrates shall be gapped ⅛ in (3.2 mm) at all edges.
 2. Substrate shall be examined for soundness, and other harmful conditions.
 3. Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
 4. Substrate construction in accordance with substrate material manufacturer's specifications and
- D. Ensure that flashing has been installed per Specification Section 07 60 00 - Flashing and Sheet Metal.
- E. Advise Contractor of discrepancies preventing installation of the TeifsScratch and Brown WaterMaster Stucco Assembly. Do not proceed with the TeifsScratch and Brown WaterMaster Stucco Assembly work until unsatisfactory conditions are corrected.

3.2 PREPARATION

IMPORTANT: COORDINATE TERMINATIONS OF STUCCO ACCESSORIES WITH SEALANT SECTION OF THE SPECIFICATION IN ORDER TO LEAVE REQUIRED SPACINGS FOR SPECIFIED JOINT DIMENSIONS.

- A. Wire Fabric Lath and Metal Lath: Install according to ASTM C1063 and Appendix and the Building Code.
- B. Concrete (Cast-in-Place): Provide a surface that is slightly scarified, water absorbent, straight and true to line and plane. Remove form ties and trim projecting concrete so it is even with the plane of the wall. Remove form release agents. Pre-moisten the surface with water just prior to placement of stucco, or apply one uniform coat of TeifsAdmix and Bonding Agent according to application instructions.
- C. Concrete Masonry Units: Remove projecting joint mortar so it is flush with the plane of the wall. Remove surface contaminants such as efflorescence, existing paint or any other bond inhibiting material by sandblasting, waterblasting, wire brushing, chipping or other appropriate means. Pre-moisten the surface with water just prior to placement of stucco, or apply one uniform coat of Teifs Admix and Bonding Agent according to application instructions.

3.3 MIXING

- A. Mix Teifs proprietary products in accordance with manufacturer's instructions, including the applicable TeifsScratch and Brown WaterMaster Stucco Assembly Product Data Sheets.
- B. Admix - Teifs Admix and Bonding Agent
 - 1. Mix up to 1 gal (3.8 L) per 1 bag of TeifsScratch and Brown. Add after dry components and the majority of the water has been mixed. Mix no longer than required to provide a uniform mixture. DO NOT OVER-MIX. Overmixing entrains excessive amounts of air which weaken the material. Do not re-temper mixes over 20 minutes old.

3.4 APPLICATION

- A. General: TeifsScratch and Brown WaterMaster and its related materials shall conform to ASTM C926, this specification and Teifs Product Data Sheets
- B. Water Resistive Barrier:
 - 1. Treat all sheathing joints with Parex USA Weatherseal water-resistive barrier with Parex USA Sheathing Tape
 - 2. Flash all rough openings with Flashing Membrane or reinforced Parex USA Weatherseal
 - 3. Apply Parex USA Weatherseal Water-resistive barrier to the surface of the appropriate substrate (2 coats for Roll-on on plywood and OSB).
 - 4. Concrete Masonry Construction: Parex USA WeatherDry Waterproof base coat installed over the TeifsScratch and Brown Stucco Base.
 - 5. Parex USA Weatherseal covered by a water vapor permeable intervening material such as building paper.
 - 6. Continuous Insulation
 - a. Parex USA Weatherseal covered by Dupont Tyvek Stuccowrap, DrainWrap, CommericalWrap D, or other water resistive barrer incorporating in itself a means of drainage and maintaining a current ICC Evaluation Report covered by Flat Insulation board:
 - b. Parex USA Weatherseal covered by WaterMaster Channeled Insulation Board.
- C. TeifsScratch and Brown Stucco Base:
 - 1. Scratch Coat:
 - a. Apply scratch coat to a minimum thickness of $\frac{3}{8}$ in (10 mm), using sufficient trowel pressure to key stucco into lath or to create bond to substrates as applicable.
 - b. Prior to initial set, scratch horizontally to provide key for bond of brown coat.
 - c. Moist cure scratch coat with clean potable water for at least 48 hours in accordance with ASTM C926 and the building codes following initial application (unless brown coat is applied as soon as the scratch coat has achieved sufficient rigidity to support the brown coat).
 - 2. Brown Coat:
 - a. Apply brown coat to a minimum thickness of $\frac{3}{8}$ in (10 mm), using sufficient trowel pressure to key stucco into scratch coat.
 - b. Rod surface to true plane and float to densify.
 - c. Trowel to smooth and uniform surface to receive acrylic polymer finish coat

- d. Moist cure brown coat with clean potable water for at least 48 hours, in accordance with ASTM C926 and the building codes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE TEIFSSCRATCH AND BROWN KRAK-SHEILD STUCCO ASSEMBLY (C.) FOR ENHANCED CRACK RESISTANCE PERFORMANCE.

- D. Leveling and Reinforcing Coat (TeifsScratch and Brown WaterMaster Krak-Shield Stucco Assembly):
 1. After Moist Curing, allow TeifsScratch and Brown WaterMaster Stucco Base to air dry for 24 hours before applying the leveling and reinforcing coat.
 2. Using a stainless steel trowel, apply the Parex USA Stucco Level Coat over the TeifsScratch and Brown WaterMaster Stucco Base at a thickness of $\frac{1}{16} - \frac{3}{32}$ in. (1.6 – 2.4 mm).
 3. Fully embed the Parex USA reinforcing mesh, either 355 Standard Mesh or 358.10 Intermediate Mesh, into the wet Stucco Level Coat including diagonal strips at corners of openings and trowel smooth. If 355 Standard Mesh is used, seams are overlapped 2½ in (63 mm), and if the 358.10 Intermediate Mesh is used, seams are butted and covered by strips of Parex USA Detail Mesh 356.
 4. The Teifs acrylic primers and finishes can be applied as soon as the Parex USA Stucco Level Coat has cured, typically after 24 hours.
- E. Parex USA WeatherDry Waterproof Base Coat:
 1. When TeifsScratch and Brown WaterMaster Stucco Assembly is installed over concrete masonry construction, apply a layer of Parex USA WeatherDry Waterproof base coat over the stucco base.
 2. Allow the stucco base to air dry for one day after moist curing before installing.
- F. Teifs Primer and Finish:
 1. Remove surface contaminants such as dust or dirt without damaging the substrate.
 2. Ambient and surface temperature must be 40°F (4°C) or higher during application and drying time. Supplemental heat and protection from precipitation must be provided as needed.
 3. Use only on surfaces that are sound, clean, dry, unpainted, and free from any residue that might affect the ability of the finish to bond to the surface.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE #4

4. TeifsScratch and Brown WaterMaster Krak-Shield Stucco Assembly
 - a. Before the application of the finish, the base coat must have cured a minimum of 24 hours or longer as required by weather conditions. Examine the cured base coat for any irregularities.
 - b. Correct these irregularities to produce a flat surface.

-OR-

4. TeifsScratch and Brown WaterMaster Stucco Assembly
 - a. After Moist curing, allow the TeifsScratch and Brown WaterMaster Stucco Base to air dry.
 - (1) Minimum of 3 more days if applying a Teifs Primer

-OR-

- (1) Minimum of 5 more days before application of a Teifs Acrylic or Elastomeric based Finish Coat

5. Apply exterior wall finish coats according to product data sheets.
6. Protect Teifs Finish Coats from inclement weather until completely dry.

G. Curing

1. TeifsScratch and Brown Stucco Base : Keep stucco moist for at least 48 hours (longer in dry weather) by lightly fogging walls. Start light fogging after initial set of 1–2 hours.
2. Air cure acrylic based and elastomeric finish coats only, do not wet cure.

3.5 CLEAN-UP

- A. Removal: Remove and legally dispose of TeifsScratch and Brown WaterMaster Stucco Assembly component debris material from job site.

3.6 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt, precipitation, freezing and continuous high humidity until fully cured and dry.
- D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Project Designer/Owner.

END OF SECTION

Disclaimer: This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project.

NOTES



Teifs Scratch & Brown WaterMaster Wall Assembly Specification

CSI SECTION 09 24 00



Corporate Office

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