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Access current system documentation and technical data.

Crack Resistant System (CRS) Page

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Western Blended Products (WBP) Crack Resistant System (CRS).
2. Reinforcing skim coat assembly installed over cured portland cement plaster systems.
3. Polymer-modified reinforcing basecoat with embedded alkali-resistant fiberglass mesh.

B. CRS may be incorporated into:

1. Western 1-Kote systems.
2. Western One-Pass systems.
3. Conventional portland cement plaster assemblies.
4. Approved concrete and masonry substrates.

C. Related Sections:

1. Section 09 24 23 – Portland Cement Stucco.
2. Section 07 27 00 – Weather-Resistive Barriers.
3. Section 06 16 00 – Sheathing.
4. Section 07 92 00 – Joint Sealants.

1.2 REFERENCES

A. ASTM C926 – Application of Portland Cement-Based Plaster.
B. ASTM C1063 – Installation of Lathing and Furring to Receive Portland Cement-Based Plaster.
C. ASTM D5035 – Breaking Force and Elongation of Textile Fabrics.
D. ASTM D2098 – Alkali Resistance of Glass Fiber Strands.
E. 2024 International Building Code (IBC).
F. 2024 International Residential Code (IRC).

1.3 SYSTEM DESCRIPTION

A. The Western Blended Products Crack Resistant System (CRS) consists of:

1. BPS Armor CRS (Embedment Grade) polymer-modified reinforcing basecoat.
2. WBP Fiberglass EIFS & Stucco Mesh, minimum 4.5 oz/yd² alkali-resistant fiberglass mesh.
3. Minimum embedment thickness of 1/16 inch (1.6 mm).

B. CRS is a reinforcing skim coat assembly designed to enhance crack resistance and improve surface durability of cement plaster systems.

C. CRS is not structural reinforcement and does not eliminate cracking resulting from:

1. Structural movement.
2. Substrate instability.

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Rio Grande Stucco Co.
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3. Improper control joint placement.
4. Improper installation.

1.4 SUBMITTALS

A. Product Data:

1. BPS Armor CRS Technical Data Sheet.
2. WBP Fiberglass EIFS & Stucco Mesh Technical Data Sheet .
3. CRS System Technical Data Sheet.

B. Manufacturer's written installation instructions.

C. Samples:

1. Submit mesh sample if requested by Architect.

D. Warranty documentation where enhanced system warranty is specified.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer shall be experienced in application of cement plaster systems.
2. Installation shall comply with ASTM C926 and manufacturer's written instructions.

B. Pre-Installation Conference:

1. Conduct conference when required by Division 01.
2. Review substrate preparation, sequencing, curing procedures, and finish coordination.

C. Mockups:

1. Provide mockup when required by Contract Documents.
2. Mockup shall include plaster basecoat, CRS layer, and specified finish.
3. Approved mockup may serve as standard of workmanship.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in original, unopened packaging with manufacturer identification.

B. Store materials off ground in dry, ventilated area.

C. Protect materials from moisture, freezing, and contamination.

1.7 PROJECT CONDITIONS

A. Environmental Requirements:

1. Do not install CRS when ambient or substrate temperatures are below 40°F (4.4°C) or above 100°F (38°C).
2. Protect materials from freezing during application and curing.

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B. Curing:

1. Provide moist curing for minimum 48 hours.
2. Extend curing period when required by environmental conditions.

1.8 COORDINATION

A. Coordinate CRS installation with:

1. Completion and curing of plaster basecoat.
2. Installation of control and expansion joints.
3. Flashing and weather-resistive barrier installation.
4. Sealant placement at penetrations and terminations.

B. Do not apply finish coat until CRS layer is adequately cured.

1.9 WARRANTY

A. CRS may be incorporated into qualified Western Blended Products system assemblies and may be eligible for enhanced system warranty options when installed in accordance with manufacturer requirements.

B. Refer to current Western Blended Products warranty documentation for terms and conditions.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis of Design: Western Blended Products (WBP).

B. Products shall be manufactured by Western Blended Products or produced under license in accordance with IAPMO UES ER-382.

C. Substitutions shall comply with Division 01 requirements.

2.2 MATERIALS

A. Reinforcing Basecoat

1. Product: BPS Armor CRS (Embedment Grade).
2. Description: Polymer-modified reinforcing basecoat formulated for embedment of alkali-resistant fiberglass mesh within the CRS assembly.
3. Application: Reinforcing skim coat layer.

B. Reinforcing Mesh

1. Product: WBP Fiberglass EIFS & Stucco Mesh.
2. Type: Non-adhesive, alkali-resistant woven fiberglass mesh.
3. Weight: Minimum 4.5 oz/yd².
4. Performance:
   a. Tensile strength per ASTM D5035.
   b. Alkali resistance per ASTM D2098.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrates are:

1. Properly cured.
2. Structurally sound.
3. Free of bond-inhibiting materials.
4. Planar within 1/4 inch in 4 feet.

B. Do not proceed until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Dampen porous substrates as required to control suction.

B. Apply approved bonding agent where required for renovation applications in accordance with manufacturer instructions.

3.3 INSTALLATION

A. Apply BPS Armor CRS basecoat to minimum thickness of 1/16 inch (1.6 mm).

B. Immediately embed fiberglass mesh into wet basecoat.

C. Fully encapsulate mesh; no mesh shall be visible after curing.

D. Overlap mesh minimum 2.5 inches (64 mm) at seams.

E. Provide additional reinforcement at corners, penetrations, and stress concentrations.

3.4 FIELD QUALITY CONTROL

A. Inspect embedment thickness and mesh coverage during installation.

B. Verify mesh overlap and corner reinforcement placement.

C. Repair areas where mesh exposure or inadequate coverage occurs prior to finish application.

3.5 CURING AND PROTECTION

A. Provide moist curing for minimum 48 hours.

B. Protect from rapid drying, freezing, precipitation, and mechanical damage until adequately cured.

3.6 FINISH APPLICATION

A. Apply approved Western Blended Products finish coating after CRS layer has cured in accordance with manufacturer's written instructions.

END OF SECTION 09 24 23

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