

SCREPA M700



MATERIALS

SCREPA (Construction Mortar) M700 TS 5745-016-77919831-2016

DESCRIPTION: Dry construction mortar admix for surface restoration purposes. Consists of Portland cement, silica sand with certain granulometry, chemical additives and reinforcing fiber.

RECOMMENDED FOR: Repair and waterproofing of reinforced concrete, brick, and stone structures as well as wet shotcrete lining process

ADVANTAGES:

- Excellent adhesion, early and ultimate strength
- Increased crack resistance and bending strength
- Waterproof and frost resistance
- Corrosion resistance
- Easy application and thixotropy

SPECIFICATIONS:

Parameter name	Value	Test procedure
Bulk density	1200 ± 100	GOST 8735
Густота ['hja Yž'a]b". '!]b]h]U' gYhž' bchi' bh]' - -final set, not later	40 140	GOST 310.3
Density of fresh mortar, kg/m ³	2100±100	GOST 5802
Compressive strength, MPa, min.: ! '5žYf' %XUm ! '5žYf' &, 'XUmg	30 70	GOST 310.4
Bending strength, MPa, min.: ! '5žYf' %XUm ! '5žYf' &, 'XUmg	7 12	GOST 310.4
Adhesion after 28 days, MPa, min.:	2,0	GOST 31356
Grade by water resistance, min.	W18	GOST 12730.5
Grade by frost resistance, min.	F800	GOST 10060

PACKAGING: Multiply bags (25 kg), pails (25 kg), big-bags (1000 kg).

TRANSPORTATION: all types of transport.

STORAGE CONDITIONS: When delivered in multiply bags and big-bags, store in dry place. When delivered in plastic pails store in areas with any humidity and temperature from -60 up to +50°C.

SHELF LIFE: 6 months in multiply bags and big-bags, 12 months in pails when in unopened and undamaged original packaging.

Instructions for use

Apply when the temperature of the structural surface is from 5°C up to 35°C in dry and calm weather conditions.

DRY MIX CONSUMPTION: 1.8 kg/m² with a layer thickness of 1 mm. Dry mix consumption when applying wet shotcrete method considering the rebound value can rise to 20% on vertical surfaces and to 30% on ceilings.

Safety Precautions: Use PPE: chemical-resistant rubber gloves, cotton gloves, respirator, protective goggles, suitable protective clothing, rubber boots. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Surface Preparation: The surface must be clean, sound, and free of any surface contamination. Ensure roughness of the surface using chisel to create a better bonding surface. When reinforcement bars denuded, remove concrete around by at least 10 mm.

Clean reinforcement from rust to grade 2 based on GOST 9.402-2004. Replace reinforcement, where required.

Warning! Before applying "Construction Mortar M700" use water spraying to ensure penetration of dampness.

MIXING: Warning! To prepare mixture use clean water and containers. Mix only as much material as can be used within 30 minutes. Optimum mixing water temperature is 20°C. Mixture setting slows as the temperature decreases and speeds up in higher temperatures. Mix a dry mix "Construction Mortar M700" with water using ratio of 150–165 ml of water per 1 kg of product. Stir thoroughly within 5 min. manually or by using a drill at slow RPM to get creamy consistency.

Warning! If the mixture starts to set, do not add more water; simply re-stir to restore workability.

APPLICATION: Apply the layer of "Construction Mortar M700" (layer thickness 6-60 mm.) to the surface manually or using wet shotcrete method. Before applying the next layer use a notched trowel to ensure better adhesion. Wait 3-4 hours before applying the next layer.

POST TREATMENT: Protect treated areas from mechanical impacts and freezing temperatures for 3 days. The treated areas should be kept damp for a period of 3 days by using water spraying and/or covering of concrete surface with waterproof sheeting.

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