

# SCREPA M600



**DESCRIPTION:** Dry waterproof injectable mortar admix for surface construction purposes. Consists of finely powdered Portland cement, proprietary chemicals. **RECOMMENDED FOR:** Sealing hairline cracks, cracks, and joints up to 0,4 mm, holes, and voids in building structures by injection to ensure waterproofing and / or reinforcement. Applicable as binder material for getting highly mobile, self-compacting concrete and mortar mixtures, as well as high-strength, waterproof, non-shrinking concrete, and mortars. Applicable for anchoring.

**ADVANTAGES:**

- High mobility and lack of shrinkage
- Excellent adhesion
- Water-, frost- and corrosion resistance

**SPECIFICATIONS:**

Parameter name	Value depending on consistency			Test procedure
	Plastic	Plastic-fluid	Fully fluid	
Water-solid ratio	w/s = 0,25	w/s = 0,3	w/s = 0,4	TS 5745-004-77921756-2008
Moisture content, by weight, %, max.	0,3			
Appearance	Free flowing powder of gray color with no mechanical impurities			
Standard Bulk density, kg/m <sup>3</sup>	880±70			GOST 8735
Fluidity, mm, at least	100	150	150	GOST 5802
Preservation of original mobility, min., at least	90	150	150	TS 5745-004-77921756-2008
Setting time, min.: - initial set, not until - final set, not later	140 300	240 540	360 660	GOST 310.3
Bending strength, MPa, at least: - After 1 day - After 28 days	3,5 8,0	3,0 6,5	2,0 5,0	GOST 310.4
Compressive strength, MPa, min.: - After 1 day - After 3 days - After 28 days	30 40 70	20 35 60	8 15 50	GOST 310.4
Shrinkage deformation (expansion), %, at least	+0,04	+0,02	+0,01	GOST 24544
Adhesion, MPa, at least: - After 3 days - After 28 days	0,6 1,7	0,6 1,5	0,6 1,2	GOST 31356
Grade by water resistance, min.	W20	W16	W12	GOST 12730.5

**PACKAGING:** Plastic pails (18 kg); big-bags (800 kg).

**TRANSPORTATION:** all types of transport.

**STORAGE CONDITIONS:** When delivered in big-bags, store in dry place. When delivered in plastic pails store in areas with any humidity and temperature.

**SHELF LIFE:** 6 months in big-bags, 12 months in plastic 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**

**DRY MIX CONSUMPTION:** 1,50-1,70 kg/dm<sup>3</sup>.

**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:** Drill holes at an angle of 45° in a checkerboard pattern on both sides of the crack (joint) with a pitch equal to half the thickness of the structure. The holes must cross the crack in the middle of the structure. Purge holes with air or rinse with water under pressure, then mount injection packers. To prevent leakage of the mortar mixture "Injectable Mortar M600" from the crack, fill with the mortar mixture "Injectable Mortar M500".

**MIXING:** Warning! To prepare mixture use clean water and containers. Mix only as much material as can be used within 90 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 "Injectable Mortar M600" with water using the following ratio:

<b>Consistency</b>	<b>Plastic</b>	<b>Plastic-fluid</b>	<b>Fully fluid</b>
Water consumption per 1 kg of dry mixture	250 ml	300 ml	400 ml

Stir thoroughly within 5 min. manually or by using a drill at slow RPM. Stir regularly. Warning! If the mixture starts to set, do not add more water; simply re-stir to restore workability.

**APPLICATION:** Use stirrup pump NDM-20 or Electric Screw Pump NDM-40. Before starting, test workability by pumping water. Install the end injector packer and start injecting. Pump until the pressure rises or until mixture starts to flow from the next highest injection in case pressure does not rise within 2-3 minutes. Install the next injector packer and follow the sequence of injection. If viscosity of the mortar mixture increases, flush the pump with water, prepare a new mortar mix and continue injecting. Use "Pencrete" mortar mix if injection packers need to be loosened or removed. Upon finishing work use water to clean equipment.

**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 with waterproof sheeting.

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