



IMPAC®

IMPAC® Grout 600

High strength, non-metallic, self-leveling, non-shrink cementitious grout.

Description:

IMPAC® Grout 600 is a high strength, non-metallic, self-leveling, non-shrink cementitious grout. mortar ready to use, formulated with cement, sands of controlled granulometry and special additives that guarantees an excellent efficiency. It is a pre blended mortar and only requires water to provide high flow, without segregation or shrinkage for humidity loss. IMPAC® Grout 600 meets ASTM C1 standard.

Uses:

- Used for heavy machinery anchor like turbines, pumps, compressors and other elements that require high strength (600 kg/cm²)
- For anchoring bolts, rods and concrete screws.
- To receive support plates for metal structures.
- To repair floors and structural elements made out of concrete.
- For pre-cast and prestressed anchor pieces.
- Specifically recommended for cable sleeves in post-tensioned parts.

Instructions:

Surface preparation: before application of **IMPAC® Grout 600** the surface need to be perfectly clean, it should be good concrete free from any previous coverage, dust, etc. Moisten saturating with water avoiding puddles.

Preparation: Place the necessary amount of water in the container where the mixing will be carried out.

Water addition: according to flow and strength requirements, use the technical data table above and add the appropriate quantity of clean water to achieve desired flow. Add gradually and mix mechanically during 3 to 5 minutes until the lumps are eliminated.

Leave the mix rest 2 to 3 minutes to free the air bubbles. Mix again during 10 to 30 seconds at low speed or by hand and apply.

Application:

Once its ready **IMPAC® Grout 600** should be applied as quick as possible, only in one direction to prevent air bubbles, mainly under support plates of equipment and structures. For thicknesses larger than 5 cm, an assembly should be used.

We recommend **IMPAC® Epoxy adhesive** as an adhesion bridge depending the case.

Exposed surfaces must be wet cured during at least 3 days or by using IMPAC Curing Membrane. **IMPAC® Curing membrane.**

Update: October 3/2019. These technical specifications replace any previous one up to this date. Visit our webpage www.impactusa.com where you can find the current version. Subjected to changes without notice.



Dark Gray

Storage:

Keep in a dry/cool place indoors. Place the bags on a platform to protect from possible flooding. Under such conditions, shelf life will be 12 months from the date of manufacture.

Environmental, Health and Safety:

WARNING ALERTS:

- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation

Precautionary Statements Prevention:

- P261-Avoid breathing dust / fumes / gases / mists / vapors / aerosols.
- P264-Wash the skin carefully after use.
- P-271-Use only outdoors or in a well-ventilated place.
- P280-Wear protective gloves / eye protection / face protection.

Advantage and properties:

- Ready to use, just add water
- Easy application.
- High flowability with less water than others.
- Excellent compressive strength at all ages reaching at least 60 MPa (super-fluid) until 80 MPa (semi-rigid) at 28 days.. Exceeding the ASTM C1107 standards
- Self-leveling power
- Great workability until 30 to 40 min @ 23 ° C
- Non-metallic aggregates



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Technical Information:

TECHNICAL DATA					STANDARD	
Consistency	SEMI RIGID	PLASTIC	FLUID	SUPER-FLUID	N.A.	
Water, % wt	9.5	10	11.5	13	N.A.	
Water, US gal (L)/30 kg bag	0.75(2.85)	0.79(3.00)	0.91(3.45)	1.03(3.09)	N.A.	
Flowability, ^a % or ^b s	^a 105	^a 108	^a 128	^b 23 s	ASTM C-827	
Compressive Strength, MPa (psi)	1 day	51.4 (7,455)	46.9 (6,802)	38.3 (5,555)	27.3 (3,959)	ASTM C-109
	3 days	63.0 (9,137)	50.6 (7,339)	48.1 (6,976)	41.3 (5,990)	
	7 days	71.3 (10,341)	65.9 (9,558)	59.5 (8,630)	57.1 (8,282)	
	28 days	81.8 (11,864)	70.1 (10,167)	69.4 (10,066)	61.5 (8,920)	
Expansion, %	< 0.3				ASTM C-1090	
Early expansion, %	0.5 - 1.0				ASTM C-940	
Setting time (final), hh:mm%	06:00 - 06:30				ASTM C-191	
Density (fresh mix), kg/L	2.2 – 2.3 (fluid)				ASTM C-138	
Workability, min	20 – 30 (fluid)				ASTM C-1437	
Appearance	gray powder				N.A.	
Thickness	1 cm (minimum) 6 cm (maximum)*				N.A.	

Note: all the results shown in the previous tables were obtained in the laboratory and at the ideal environmental conditions established by the current regulations. These results may vary in the field due to conditions beyond the control of Polímeros, Adhesivos y Derivados SA de CV.

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