



**High Flow**

**DARRO**

Flooring Constructions Inc.

## **DAROTopp® XS**

**0 - 25mm** (0 - 1")

**DAROTopp® XS** is a ready-mix, high performance, self-leveling synthetic anhydrite topping for interior floors delivered in **concrete trucks** through our concrete and ready-mix partners.

It is mainly used on concrete, pre-cast or hollow-core slabs in thicknesses from 0 - 25mm (0 - 1").

**DAROTopp® XS** economically provides a long-term slab topping solution while providing large **crack-free** flooring areas within tolerance of 3mm on 3m (1/8" on 10').

**DAROTopp® XS** resolves a number of on-site issues while ultimately providing **cost/time savings** and **long-term** floor slab performance. Higher technical performance and mechanics provide **superior** flatness and dimensional **stability**, while improved on-site working conditions and logistics provide **time savings** in the project **critical path**.



- delivered **just-in-time** on site as a **ready-mix** through in-house and on-site **DARRO Quality Assurance**.
- **LEED** credits available under "**Materials & Resources**": "**Indoor Environmental Quality**: low emitting materials. The manufacturing process of this **synthetic** binder is a **by-product** of the cleaning process of smoke produced by brown coal fired power plants. The installation of **DAROTopp® XS** in structures **does not produce** any **off-gassing**
- this **self-leveling** material can be installed in areas up to **50,000 sq.ft.** per day with **NO** joints or **NO** curling, allowing for **greater flexibility** for architects and designers with various coverings or tile patterns. synthetic binder is **not affected by mould** issues typical to organic gypsum based toppings, and if topping becomes wet, it simply **dries** (re-wet, dries again) allowing for use in **washroom/kitchen** areas.

**Compressive Strength: 25 - 40MPA**

Non Combustible

(3,600 - 6,000psi)

# DAROTopp® XS

## TECHNICAL DATA

Flexural Strength .....	4 - 10 Mpa, 580-1,450 psi (ASTM C348, CSA-A23.2-8C)
Compressive Strength .....	30 - 40 Mpa (ASTM C109, CSA-A5)
• 1 day: 50%, 7 days: 85% and 21 - 28 days to achieve full strength	
PH .....	> 10
Suitable for Load Carrying .....	2 days
Thermal Conductivity .....	2.2 W/MegaKelvin
Thermal Expansion .....	0.012 mm/meter x °k
Cover Ready: EPOXY coatings, PVC and hardwood.....	< 0.5%
Cover Ready: carpet, ceramic tiles, natural stone, etc.....	2 - 2.5%
Dry Weight .....	app. 1,850 kg/m <sup>3</sup> or 3,113lbs/cyr
Initial Set .....	> 300 Min
Non Combustible	

## RELATED DATA

Mixing .....	Provided as Ready-Mix in Concrete Trucks
Truck life .....	4 hrs and up to 8 hrs with additive
Installation .....	Special DARO pump/registered applicators
Approx Coverage for 10mm.....	1000 ft <sup>2</sup> /m <sup>3</sup> or 820 ft <sup>2</sup> /cyr
DAROTopp weight per 10mm/m <sup>2</sup> .....	18.5kg; 40.79lbs or 3.79lbs/ft <sup>2</sup>

## General Site/Environmental Conditions:

- 1 Prior to, during and following installation of **DAROTopp® XS**, building interior of the project shall be enclosed and maintained at temperatures no lower than 5°C (41°F) and no higher than 30°C (86°F)
- 2 Windows and doors to be kept closed to avoid drafts during initial 48hr period after pumping
- 3 Avoid "Chimney Effect" i.e. stairwell to prevent accelerated drying and no exposure to direct sunlight
- 4 Examine substrate to ensure sub-floor is structurally solid with adequate bearing strength, removing any unsound concrete and filling voids, large cracks and holes
- 5 Broom clean existing concrete slab and application of primer. (NO shot blasting, grinding, etc required)

## Preparation for Flooring

- 1 Floor Usage: normal foot traffic within 24hrs or 48hrs depending on temperature/humidity conditions
- 2 **DAROTopp®** typically requires light sanding 10 days after installation, prior to covering installation. Sinter layer free upon request.
- 3 With ideal conditions of 18°C (64°F) and a RH less than 50% for example, floor ready to accept tiles or carpet in 8 - 12 days, again depending on conditions.; hardwood and VCT requires moisture test by floor finish contractor.
- 4 Prior to covering installation, **DARO** to confirm **moisture content** of **2% - 2.5%**, (.5% for epoxy) which is also less than typical requirement of 3lbs/1000ft<sup>2</sup> per 24hrs using calcium chloride test.